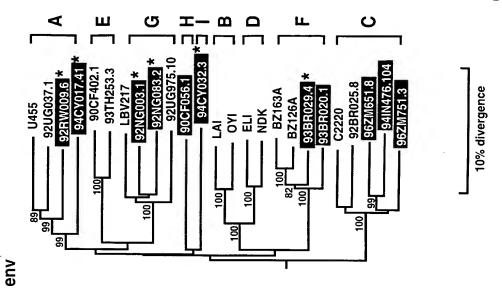
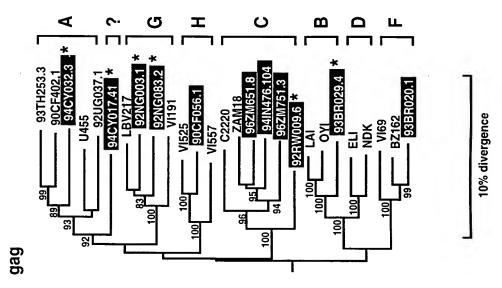




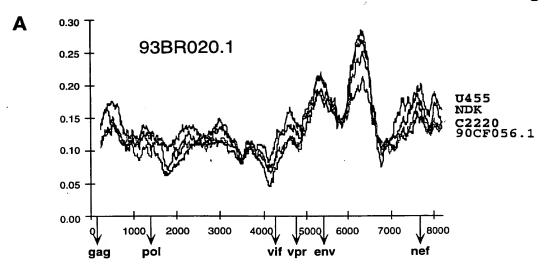
Fig. 1

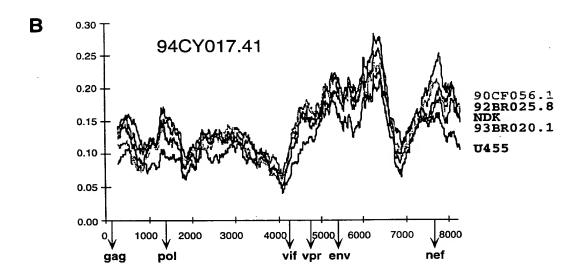


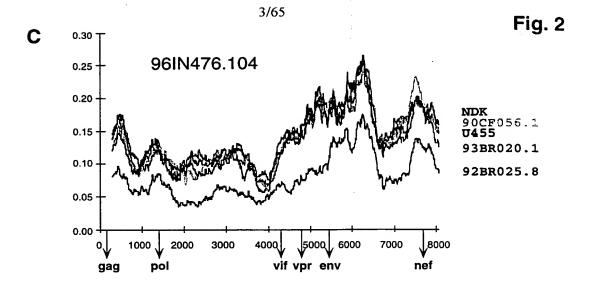


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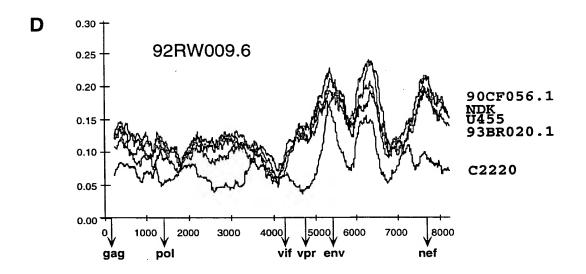
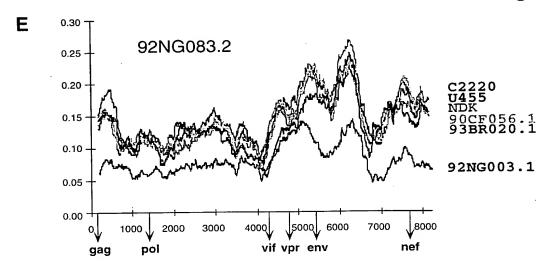
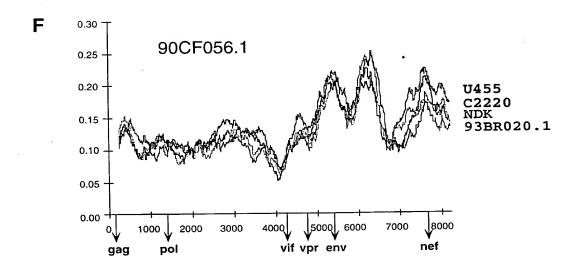
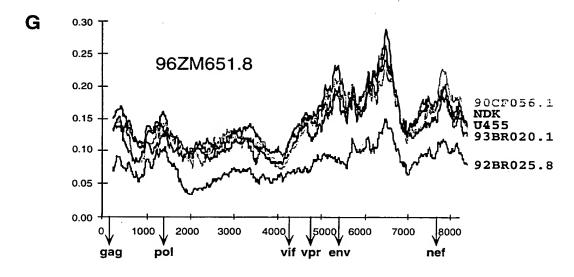


Fig. 2







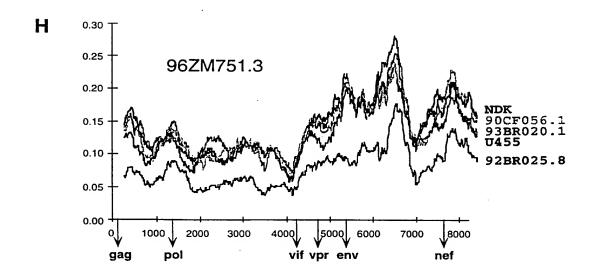
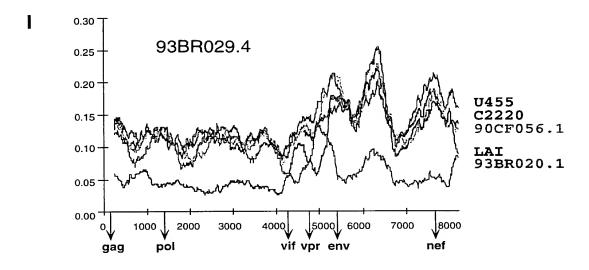
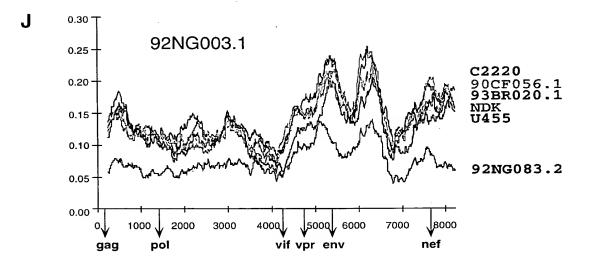


Fig. 2





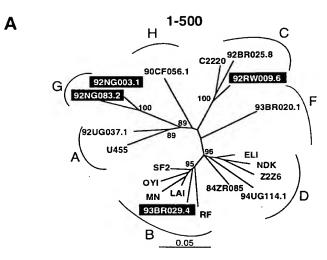
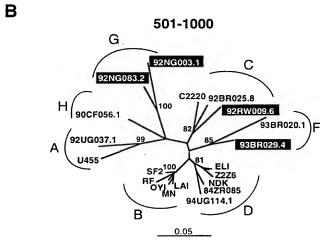
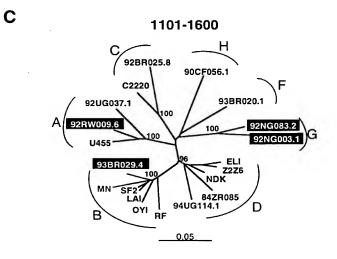


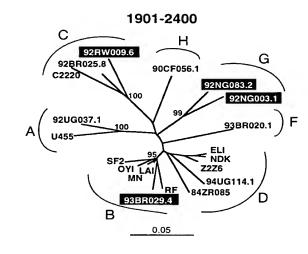
Fig. 3

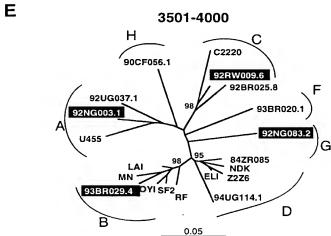




D

Fig. 3





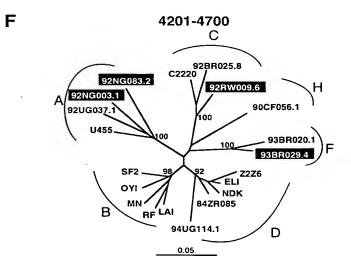


Fig. 3

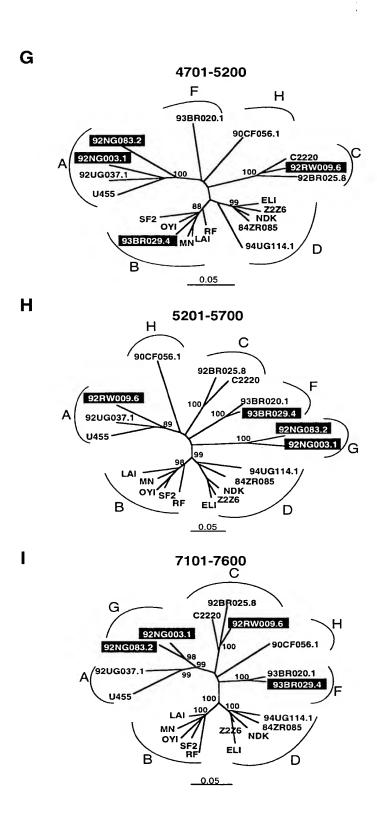
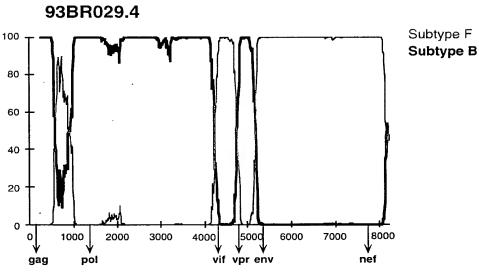


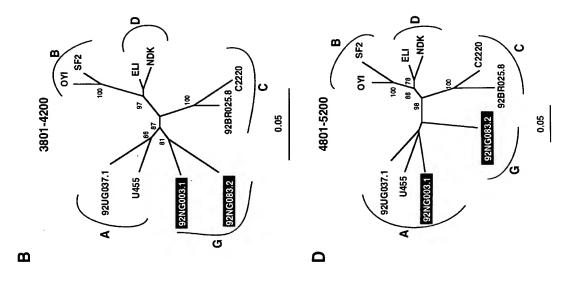
Fig. 4

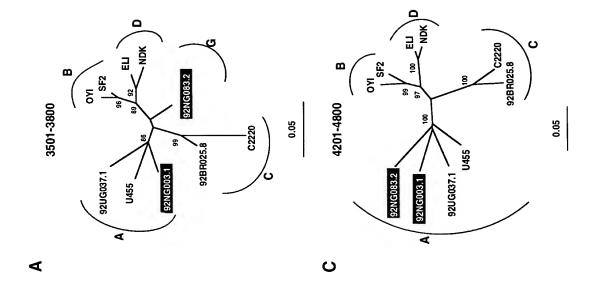
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В



Subtype F





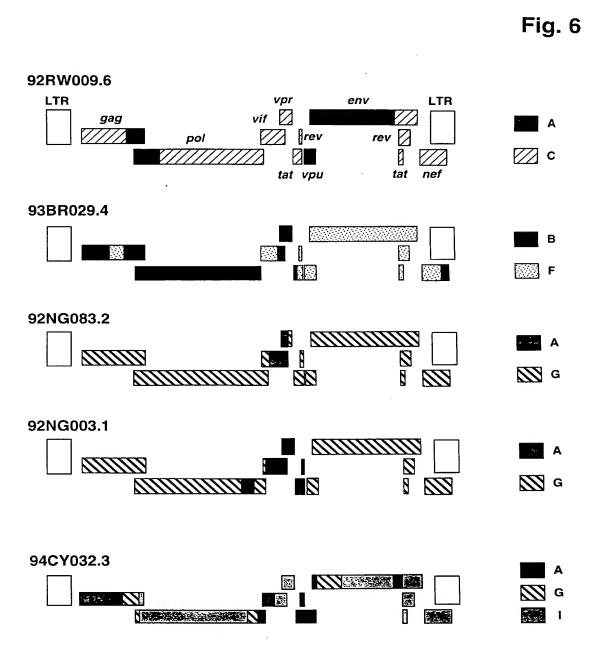


Fig. 7

tat (second exon)	(uc	frequency
CONSENSUS_A	P?PQTQG?.?TGPKESKKKVESKTETDRFD*	0/14
CONSENSUS_B	P?SQPRGD.PTGPKESKKKVERETETDP?D*	4/52
CONSENSUS_C	$ t PLPQTRGD$. $ t PTGSEESKKKVESKTETDPFD^*$	0/11
CONSENSUS_D ELI 7226	PSSQPRGD. PTGPKE*	11/15
NDK 92UG021.16 92UG024.2	S	
JY1 UG269A		
	*(- q - k -) (- H - - H - - - - - -	
932KUUL.3 UG266A2 MAL		
K124A2 84ZR085.1 94UG114.1	* * * *	
CONSENSUS_E	PLPIIRGN.PTDPKESKKEVASKAETDPCD*	6/0
CONSENSUS_F	PISQARGN.PTGPKESKKEVESKAKTDPCA*	0/4
CONSENSUS_G	PLPTTRGN.PTGPKESKKEV?SKTETDPFD*	8/0
CONSENSUS_H	PLSRTHGD.PTGPKEQKKEVASKTETDP*	0/1

4

Fig. 7

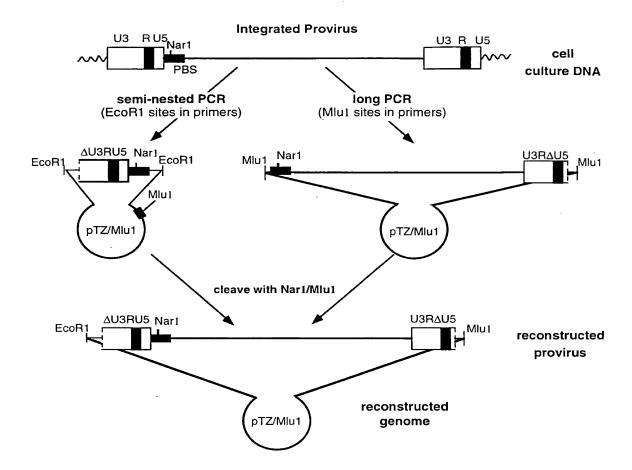
rev (second exon)	rev (second exon)	frequency
ONSENSUS_B	CONSENSOS_A FILTERO FROM TRANSPORTED FOR THE STATEMENT OF	0/52
CONSENSUS_C 93MW959.18 93MW960.3 93MW966.26 UG268A2 ZAM18A ZAM18A ZAM20A DJ359A	PY PK PEGT. RQAR? NRRRRWRARQRO IHSISERILISTCLGR PAEPV PLOLP PIERLHI DCSES ?GTSGTQQSQGTTEGVGSE**	15/15
CONSENSUS_D	PPPSPEGT.RQARRNRRRRWRARQRQIHSIGERILSTYLGRPEEPVPLQLPPLERLNLNC?EDCGTSGTQGVGSPQISVESPAVLDSGTEE*	0/15
ONSENSUS_E	CONSENSUS_E P?PSSEGT.RQTRKNRRRRRRRRRQRQIRAISERILSTCLGRSTEPVPLQLPPLERLHLDCSEDCGTSGTQQSQGTETGVGRPQISGESSVILGPGTKN*	6/0
CONSENSUS_F	PYPKPEGT. RQARRNRRRRMRARQRQIREISERILSSCLGRPEEPVPLQLPPLERLHINCSEDC?QGAEEGVGSPQTSGESHAVLGSGTKE*	0/4
CONSENSUS_G	PYPPPEGT. RQAR?NRRRRWRARQRQIH?ISERILS?CLGRPAEPVPLQLPPLERLHLDCSEDSGTSGTQQSQGTETGVGGPQISVESSVVLGSG?KE*	1/8
ONSENSUS_H	CONSENSUS_H PCPEPTGT.RQARRNRRRRWRARQRQIREISERILTSCLGRPPEPVTLQLPPLERLTLNCSEDCGTSGEKGEGSPQISLESSTILGTGTKE*	0/1

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•			
	Npu		Frequency
•	CONSENSUS_A	M??LEI?AIVGLVVALI?AIVVW.TIVGI	0/13
ū	CONSENSUS_B	MQSLQI?AIVALVVAAIIAIVVW.TIV?I	0/26
0 1.0	CONSENSUS_C 92BR025.8 C2220	M?DLLAKVDYRL?VGALIVALIIAIVVW.TIAYI -LE-IGRIGV-I -VIVIV-F	10/10
	SM145 UG268	-LNGIAIFS	
. — `	DJ373		
	SE364 94IN476.104	-V	
-· -·	96ZM651.8 96ZM751.3	-LR-NVGL	
Ü	CONSENSUS_D	MQPL?ILAIAALVVALIIAIVVW.TIVFI	6/0
Ū	CONSENSUS_F	MSYLLAI?I?ALIVALIIAIVVW.TIAYI	0/4
J	CONSENSUS_G	MQ?LEI?AI?GLVVAFIAAIVVW.SIV?I	0/3
J	CONSENSUS_H	MYILG.LGIGALVVTFIIAVIVW.TIVYI	0/1

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Fig. 8



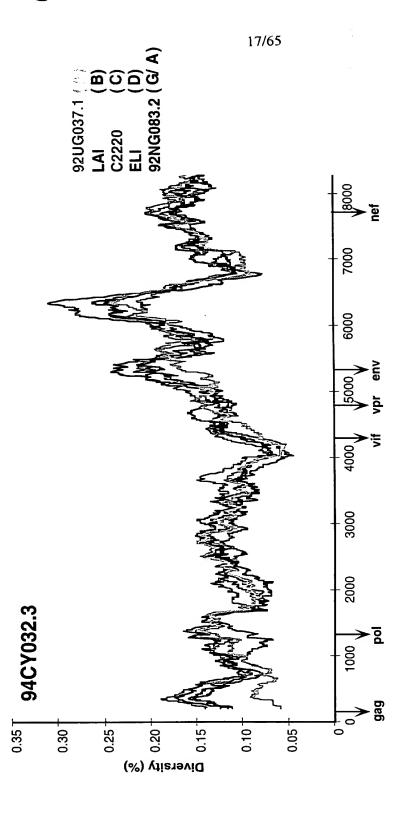


Fig. 9

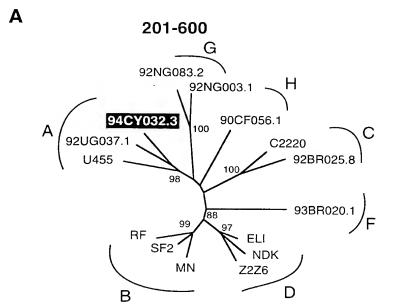
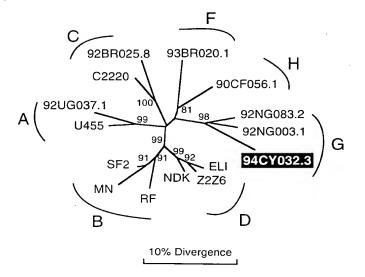


Fig. 10

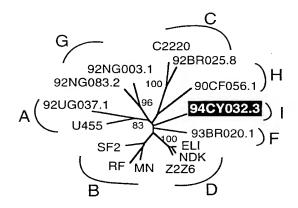
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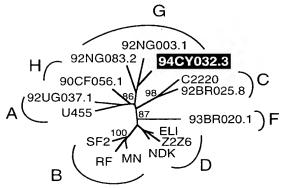


C Fig. 10

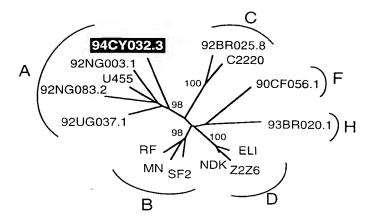
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D 3841-4240

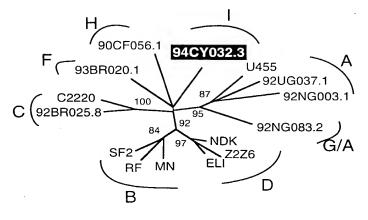


4241-4640



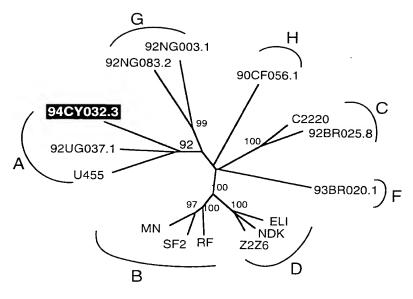
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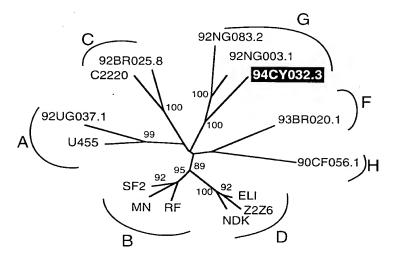
Fig. 10



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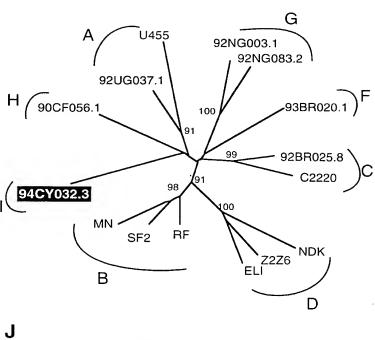
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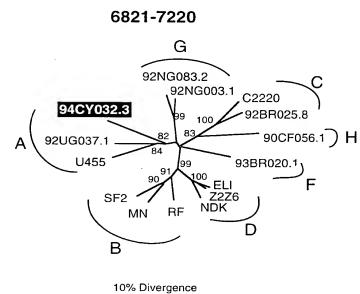
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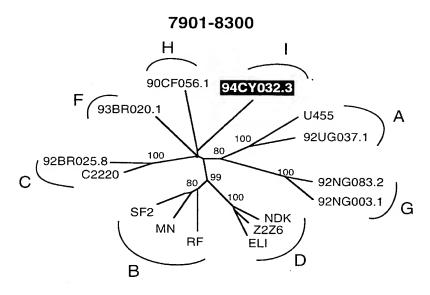


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Fig. 10







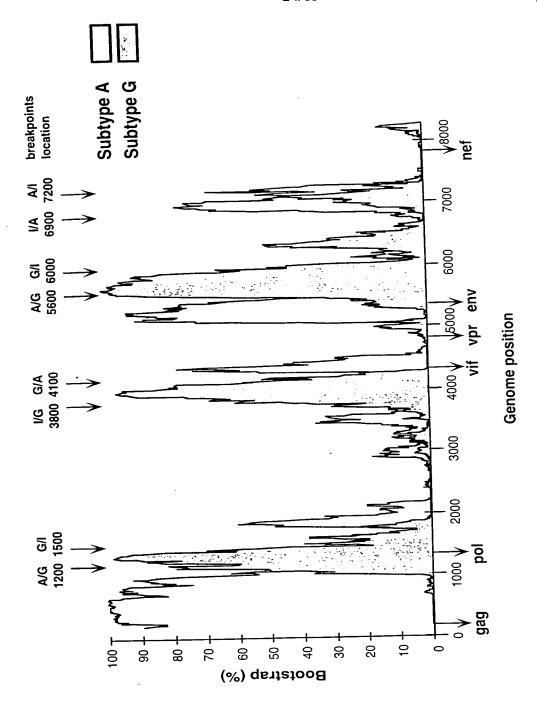
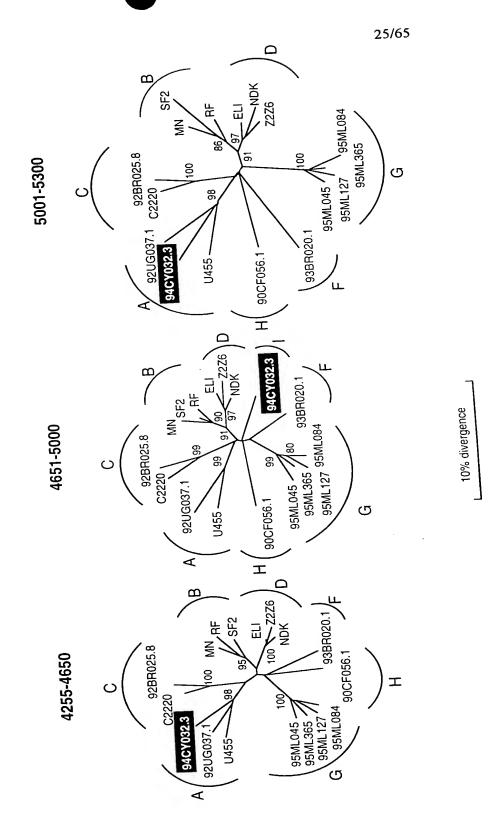


Fig. 12



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92NG083.2	ATGAAAGCGAAAGTTAATAGGGACTCATTT	57
90CF056.1	AT	36
		36
92RW009.6		
92NG003.1	TTGAAAGCGAAAGTTAACAGGGACTCTTT	57
93BR029.4	GAGCTT	36
94CY032.3	TTGAAAGTGAAAGTTAATAGGACTCTTT	56
96ZM651.8	GG	35
96ZM751.3	GT	36
	TTGAAAAGCGAAAGTAACAGGGACTCTGTT	57
94CY017.41	TIGAAAAGCGAAAGTAACAGGGACTC	
94IN476.104		36
93BR020.1	CGCAGGACTCGGCTTGCTGAA.GTGCACACGGCAAGAGGCGAGA.GCGGCGACTGGTGAG	93
92NG083.2	AA	115
90CF056.1	AA	94
92RW009.6	GGG	95
		115
92NG003.1		
93BR029.4		95
94CY032.3	A	114
96ZM651.8		93
96ZM751.3		94
94CY017.41		116
		94
94IN476.104	- CACAA	24
	GAG start	
93BR020.1	TACGCCAAAATTTGACTAGCAGAGG.CTAGAAGGAGAGACATGGGTGCGAGAG	145
92NG083.2		168
90CF056.1	TTGTTTG	149
92RW009.6		151
	G	169
92NG003.1		
93BR029.4	AATAAAATTTGG	154
94CY032.3	GG	168
96ZM651.8	TTATTG	149
96ZM751.3		149
94CY017.41	TA-T-TT	171
	G	150
94IN476.104		130
93BR020.1	CGTCAGTATTAAGCGGGGGAAAATTAGATGCTTGGGAAAAAATTCGGTTAAGGCCGGGGG	205
93BR020.1 92NG083.2	TAA	205 228
92NG083.2	TAA	
92NG083.2 90CF056.1		228 209
92NG083.2 90CF056.1 92RW009.6	AAAAAA	228 209 211
92NG083.2 90CF056.1 92RW009.6 92NG003.1	AAAAAA	228 209 211 229
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		228 209 211 229 214
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		228 209 211 229 214 228
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		228 209 211 229 214 228 209
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		228 209 211 229 214 228
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		228 209 211 229 214 228 209
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		228 209 211 229 214 228 209 209 231
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		228 209 211 229 214 228 209 209
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	T	228 209 211 229 214 228 209 209 231 210
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	T	228 209 211 229 214 228 209 209 231 210
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		228 209 211 229 214 228 209 209 231 210
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	T	228 209 211 229 214 228 209 209 231 210
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		228 209 211 229 214 228 209 209 231 210
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92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		228 209 211 229 214 228 209 231 210 263 286 267 270 287
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	T A A A A A A A A A A A	228 209 211 229 214 228 209 231 210 263 286 267 270 287 273
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	T — G — C — A — A — A — A — A — A — A — A — A	228 209 211 229 214 228 209 231 210 263 286 267 270 287 273 286
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		228 209 211 229 214 228 209 209 231 210 263 267 270 287 273 286 267
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		228 209 211 229 214 228 209 209 231 210 263 286 267 270 287 273 286 267 273 286
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		228 209 211 229 214 228 209 209 231 210 263 267 270 287 273 286 267
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		228 209 211 229 214 228 209 209 231 210 263 286 267 270 287 273 286 267 273 286
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		228 209 211 229 214 228 209 231 210 263 286 267 270 287 273 286 267 273 286 267 273
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		228 209 211 229 214 228 209 231 210 263 267 270 287 273 286 267 267 289 268
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		228 209 211 229 214 228 209 209 231 210 263 286 267 270 287 273 286 267 267 289 268
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92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	T	228 209 211 229 214 228 209 231 210 263 286 267 273 286 267 273 286 267 289 268
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	T G A A A G A A A A A A A A A A A A A A	228 209 211 229 214 228 209 231 210 263 286 267 270 287 273 286 267 273 286 267 273 286 267 273 286 267 273 286 267 273 286 273 286 287 273 287 273 274 275 275 275 275 275 275 275 275 275 275
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	T G A A A G A A A A A A A A A A A A A A	228 209 211 229 214 228 209 231 210 263 286 267 273 286 267 273 286 267 289 268
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		228 209 211 229 214 228 209 231 210 263 286 267 270 287 273 286 267 267 268 323 346 327 330
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	T — G — C — A — — — — — — — — — — — — — — — —	228 209 211 229 214 228 209 209 231 210 263 286 267 270 287 273 286 267 267 289 268 323 346 327 330 347 333
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94IN476.104 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2	T	228 209 211 229 214 228 209 231 210 263 286 267 270 287 273 286 267 267 289 268 323 346 327 330 347 333 346
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1		228 209 211 229 214 228 209 231 210 263 286 267 270 287 267 267 267 267 268 323 346 333 347 333 346 327
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8	T	228 209 211 229 214 228 209 231 210 263 267 270 287 273 267 267 267 267 267 267 267 267 267 267
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1		228 209 211 229 214 228 209 209 231 210 263 286 27 273 286 267 287 267 289 268 323 346 327 333 346 327 334 347
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8	T	228 209 211 229 214 228 209 231 210 263 267 270 287 273 267 267 267 267 267 267 267 267 267 267

Fig. 13-1

93BR020.1	ACAACCATCCCTTCAGACAGGATCAGAAGAGCTCAAATCATTATAATACAATAGCAGT	383
92NG083.2	GG-TCTAGT-GTGAC	406
90CF056.1	GG-TAAAATATCT-G	387
92RW009.6		
	GG-TGAAAAC	390
92NG003.1	GTCAGA-TTGAC	407
93BR029.4	GAGAT-GGAC	393
94CY032.3	TA-TCA-AAT-GTAAC	406
96ZM651.8	G-TA-G-G-G-AT-GCCGAC	387
96ZM751.3	G-TCAG-AT-GG	
96ZM/51.3		387
94CY017.41	G-TCAAT	409
94IN476.104	TG-TAAGAT-GGTCCGAC	388
941N4/0.104	1G-1AAAAC	300
93BR020.1	CCTCTATTATGTACATCAAAAGGTAGAGGTAAAAGACACCAAGGAGGCTTTAGAGAAGCT	443
92NG083.2	C-GCAAAAACCG-AG-	466
90CF056.1	GC	447
92RW009.6	G	450
92NG003.1	AACG-AAACG-AG-	467
93BR029.4	AAAAA	453
94CY032.3	GG-GCTAA-	466
96ZM651.8	TGC-G-A-	447
96ZM751.3	TGACCAACGACCA	447
94CY017.41	C-GGGTACTAA-	469
94IN476.104	TG	
341N4/6.104	1ACA	448
93BR020.1	AGAGGAAGAACAAAGGTCGGCAAAAGACACAGCAA	489
92NG083.2	GAAATGCAAG-A-TG	515
90CF056.1	ATAAAA	496
92RW009.6		
	GGCAGAAAG	502
92NG003.1	GAAATGCAAG-AA-GGCAA-TG	516
93BR029.4	GAAG	501
94CY032.3	ATGTGA-CAA	515
96ZM651.8		505
96ZM751.3	A	499
94CY017.41	TGCAAG	512
94IN476.104	G	
J41N4/0.104		500
93BR020.1	GCTGAAAAAGG	540
93BR020.1	GCTGAAAAAGGGGTCAGTCAAAATTACCCTATAGTACAGAATCTTCAGGGA	540
92NG083.2	AAGG-AACAGTAACCCACTGGCAAG	540 575
	AAGG-AACAGTAACCCACTGGCAAG	575
92NG083.2 90CF056.1	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAA	575 556
92NG083.2 90CF056.1 92RW009.6	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAAT	575 556 553
92NG083.2 90CF056.1	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAA	575 556
92NG083.2 90CF056.1 92RW009.6 92NG003.1	AAGG-AACAGTAACCCACTGGCAAG -A-A-GG-AAAGACAACAA	575 556 553 576
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAATGAG -ACAGG-AAA	575 556 553 576 561
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAA	575 556 553 576
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAA	575 556 553 576 561
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAATGCAG -ACAGG-AAA	575 556 553 576 561 575 553
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAATGGCAAG -ACAGG-AAA	575 556 553 576 561 575 553
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAATGCAG -ACAGG-AAA	575 556 553 576 561 575 553
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAATGGCAAG -ACAGG-AAA	575 556 553 576 561 575 553
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566 548
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566 548
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566 548
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566 548
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566 548 600 635 616
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566 548 600 635 616 613
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566 548 600 635 616
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566 548 600 635 616 613 636
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	AAGG-AACAGTAACCCACTGGCA-A-G -A-A-GG-AAAGACAACAATGC-A-G -ACA-GG-A	575 556 553 576 561 575 553 547 566 548 600 635 616 613 636 621
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566 548 600 635 616 613 636
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	AAGG-AACAGTAACCCACTGG	575 556 553 576 561 575 553 547 566 548 600 635 616 613 636 621 635
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.1 93BR029.4 94CY032.3 96ZM651.8	AAGG-AACAGTAACCCACTGGCA-AG A-A-GG-AAAGACAACAATGCAG -ACA-GG-AAAGCA-AG -G-A-GG-AAAGCA-AG -G-A-GG-ACAGCCAGCCAA-TC	575 556 553 576 575 553 547 566 548 6035 616 613 636 621 635 613
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAATG-AGCA-AG -ACAGG-AAAG-AGCA-AG -G-AGG-AACAGCCAATCTGGCA-AG AACAC-GG-AACAACAGCCACG	575 556 553 576 561 575 553 547 566 548 600 635 616 613 636 621 635 613 607
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.1 93BR029.4 94CY032.3 96ZM651.8	AAGG-AACAGTAACCCACTGGCA-AG A-A-GG-AAAGACAACAATGCAG -ACA-GG-AAAGCA-AG -G-A-GG-AAAGCA-AG -G-A-GG-ACAGCCAGCCAA-TC	575 556 553 576 575 553 547 566 548 6035 616 613 636 621 635 613
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAACAATG-AGCA-AG -ACA-GG-AAAG-AGCA-AG -G-AGG-AACAGCCAATCTGAGCA-AG AACAC-GG-AACAACAGCCAAC	575 556 553 576 561 575 553 547 566 548 600 635 616 613 636 621 635 613 636
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAATG-AGCA-AG -ACAGG-AAAG-AGCA-AG -G-AGG-AACAGCCAATCTGGCA-AG AACAC-GG-AACAACAGCCACG	575 556 553 576 561 575 553 547 566 548 600 635 616 613 636 621 635 613 607
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	AAGG-AACAGTAACCCACTGGCA-AG A-A-GG-AAAGACAACAATGC-AGCA-AG -ACAGG-AAAGCA-AG -G-A-GG-AACAGCCAA-TCTG-AGCA-AG AACAC-GG-AACAACAGCCACG-AGCA-AG -C-C-C-GG-TAGCAGCAATC	575 556 553 576 575 553 547 566 548 6035 613 636 621 621 621 626 608
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAACAATG-AGCA-AG -ACA-GG-AAAG-AGCA-AG -G-AGG-AACAGCCAATCTGAGCA-AG AACAC-GG-AACAACAGCCAAC	575 556 553 576 561 575 553 547 566 548 600 635 616 613 636 621 635 613 636
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	AAGG-AACAGTAACCCACTGG	575 556 553 576 575 553 547 566 548 600 635 613 636 621 635 613 607 626 608
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAATG-AGCA-AG -ACAGG-AAAG-AGCA-AG -G-AGG-AACAGCCAATCTGGCA-AG AACAC-GG-AACAACAGCCAAC	575 556 553 576 561 575 553 547 566 548 600 635 616 621 635 613 626 607 626 608
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAATG-AGCA-AG -ACAGG-AAAG-AGCA-AG -G-AGG-AACAGCCAATCTGGCA-AG AACAC-GG-AACAACAGCCAAC	575 556 553 576 575 553 547 566 548 600 635 613 636 621 635 613 607 626 608
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAACAATGC-AG -ACAGG-AAAGCA-AG -G-A-GG-AACAGCAGCCAAT-CTGGCA-AG AACAC-GG-AACAACAGCCAC	575 556 553 576 561 575 553 547 566 548 600 635 613 636 621 635 613 626 608 6695 676
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6	AAGG-AACAGTAACCCACTGGCA-AG A-A-GG-AAAGACAACAATGC-AGCA-AG ACAGG-AAAGCA-AG G-A-GG-AACAGCCAA-TCTGGCA-AG AACAC-GG-AACAACAGCCAC	575 556 553 576 575 553 547 566 548 6035 616 613 636 621 621 621 626 608 6608 6608
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAACAATG-AGCA-AG -ACAGG-AAAG-AGCA-AG -G-AGG-AACAGCCAA-TCTGGCA-AG AACAC-GG-AACAACAGCCAC	575 556 553 576 561 575 553 547 566 548 600 635 613 636 621 635 613 626 608 6695 676
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG033.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAACAATG-AGCA-AG -ACAGG-AAAG-AGCA-AG -G-AGG-AACAGCCAA-TCTGGCA-AG AACAC-GG-AACAACAGCCAC	575 556 553 576 575 553 547 566 613 636 621 623 607 626 608 6695 673 696
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR020.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2	AAGG-AACAGTAACCCA C T GCA-A-G AA-GG-AAAGACAAAAAAAAAAAAAAAAAAAAAAAAAAA	575 556 553 576 575 553 547 566 548 600 635 613 636 621 635 607 626 608 676 673 673 676 673 676 681
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	AA	575 556 553 576 575 553 547 566 613 636 621 623 607 626 608 6695 673 696
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR020.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2	AA	575 556 553 576 575 553 547 566 548 600 635 613 636 621 635 607 626 608 6695 676 673 695
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104	AAGG-AACAGTAACCCACTGGCA-A-G-A-A-GG-AAAGACACAATGC-AA-GG-AA-AG-AA-GG-G-G-AA-AG-AA-GG-G-G-AA-AG-AA-GG-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-AA-AG-G-G-AA-AG-G-G-G-AA-AG-G-AA-AG-G-AA-AG-G-G-AA-AG-G	575 556 5576 5576 575 5547 566 548 6035 616 635 613 6321 635 607 626 608 667 673 696 681 695 673
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6 92NG09.6 92NG09.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	AAGG-AACAGTAACCCACTGGCA-A-G-A-A-GG-AAAGACAACAATGC-AA-GG-AA-GG-AA-GG-AA-GG-AA-A-G-GCA-A-G-GA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-G-AA-GAACACAGCCAACG-AA-GCA-A-A-G-ACACACAGCAATCG-AA-GCA-A-A-G-AC-GG-AACACACAGCAATC	575 556 5576 5576 575 5547 566 6013 636 613 636 621 621 626 609 669 673 696 695 695 695 695 695 695 695 695 695
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104	AAGG-AACAGTAACCCACTGGCA-A-G-A-A-GG-AAAGACACAATGC-AA-GG-AA-AG-AA-GG-G-G-AA-AG-AA-GG-G-G-AA-AG-AA-GG-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-G-AA-AG-G-G-AA-AG-G-G-AA-AG-G-G-G-AA-AG-G-AA-AG-G-AA-AG-G-G-AA-AG-G	575 556 5576 5576 575 553 548 6035 616 635 613 636 613 607 626 608 6095 673 696 6976 6976 6976
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6 92NG09.6 92NG09.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	AAGG-AACAGTAACCCACTGGCA-A-G-A-A-GG-AAAGACAACAATGC-AA-GG-AA-GG-AA-GG-AA-GG-AA-A-G-GCA-A-G-GA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-GAA-A-G-G-AA-GAACACAGCCAACG-AA-GCA-A-A-G-ACACACAGCAATCG-AA-GCA-A-A-G-AC-GG-AACACACAGCAATC	575 556 5576 5576 575 5547 566 6013 636 613 636 621 621 626 609 669 673 696 695 695 695 695 695 695 695 695 695

Fig. 13-2

	CCACAAGATTTAAACACCATGTTAAATACAGTGGGGGGACATCAAGCAGCCATGCAAATG	720
	CCACAAGATTTAAACACCATGTTAAATACAGTGGGGGGGG	755
92NG083.2		736
90CF056.1	CTG-TC	
92RW009.6	C	733
92NG003.1	GTTT	756
93BR029.4		741
		755
94CY032.3		733
96ZM651.8		727
96ZM751.3	C	
94CY017.41	TTCT	746
94IN476.104	CTCT	728
312111		
0200000 1	TTAAAAGACACCATCAATGAGGAGGCTGCAGAATGGGACAGATTACATCCAACACAGGCA	780
93BR020.1	CGTTTAGACAG	815
92NG083.2	CTT TT A TOTAL TOT	796
90CF056.1		
92RW009.6	CGTG	793
92NG003.1	CTT-TTAAGTGCCA	816
93BR029.4		801
	GACGT <u>T</u>	815
94CY032.3	TT	793
96ZM651.8	Table 1	787
96ZM751.3		
94CY017.41	GG	806
94IN476.104		788
3411470.201	-	
0000000	GGACCCATCCCCCAGGTCAGATAAGGGAACCTAGGGGAAGTGATATAGCTGGAACTACT	840
93BR020.1	-G-T-T-AAAGTA	875
92NG083.2	-G-T-T-AA-GA	856
90CF056.1	GTTAAAAA	
92RW009.6	GTG-TG-GCAAACA	853
92NG003.1	TTAAAAAAA	876
	AG	861
93BR029.4	GTTAAAA	875
94CY032.3		853
96ZM651.8	GTTG-AAAA	
96ZM751.3	GTTG-AAAAA	847
94CY017.41	GTTACGAACA	866
94IN476.104	GT-ATAAAA	848
J41N470.104		
2222000 1	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	900
93BR020.1	AGTACCUTTCAGGAACAAATACAATGGATGACAACCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCCCACCTGTCACCTCACCTGTCACCTGTCACCTGTCACCTCACCTGTCACCTCACCTGTCACCTCACCTGTCACCTCACCTGTCACCTCACCTGTCACCTCACCTGTCACCTCACCTGTCACCTCACCTGTCACCTCACCTGTCACCTCACCTCACCTCACCTCACCTGTCACCAC	935
92NG083.2	A	
90CF056.1	C	916
92RW009.6	A-TA-TA-T	913
92NG003.1	AA	936
93BR029.4	AA	921
	A	935
94CY032.3	CAC	913
96ZM651.8	- A-1G	907
96ZM751.3	GAAT	
94CY017.41	CAG-TCA	926
94IN476.104		908
312112.0.20		
0200020 1	ATGTATAAAAGATGGATCATCCTAGGATTAAATAAAATA	960
93BR020.1	AIGIAIAAAAGAIGGAICAICCIIICCIIIIIIIIIIII	
001777000	CG	
92NG083.2	C	995
92NG083.2 90CF056.1	C	995 976
	C	995 976 973
90CF056.1 92RW009.6	C	995 976 973 996
90CF056.1 92RW009.6 92NG003.1	C	995 976 973
90CF056.1 92RW009.6 92NG003.1 93BR029.4		995 976 973 996
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		995 976 973 996 981
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		995 976 973 996 981 995
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-C	995 976 973 996 981 995 973
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		995 976 973 996 981 995 973 967 986
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		995 976 973 996 981 995 973
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		995 976 973 996 981 995 973 967 986 968
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-CAGG	995 976 973 996 981 995 973 967 986
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-CAGGG	995 976 973 996 981 995 973 967 986 968
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-CAGGG	995 976 973 996 981 995 973 967 986 968
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	-CAGGG	995 976 973 996 981 995 973 967 986 968
90CF056.1 92RW009.6 92NW003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	-CAGGTATGGTATGG	995 976 973 996 981 995 973 967 986 968
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	-CAGGT	995 976 973 996 981 995 973 967 968 1020 1055 1036 1033 1056
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	-CAGGTAA	995 976 973 996 981 995 973 967 986 968 1020 1055 1036 1033 1056
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	-CAGGT	995 976 973 996 981 995 973 967 968 1020 1055 1036 1033 1056
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-CAGGT	995 976 973 996 981 995 973 967 986 968 1020 1055 1036 1036 1041
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-CAGGT	995 976 973 996 981 995 973 967 986 968 1020 1055 1036 1041 1041 1041
90CF056.1 92RW009.6 92NW003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	-C	995 976 973 996 981 995 973 967 968 1020 1055 1036 1041 1055 1041 1055 1033 1027
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-C	995 976 973 996 981 995 973 967 968 1020 1055 1036 1041 1055 1033 1027 1046
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-C	995 976 973 996 981 995 973 967 968 1020 1055 1036 1041 1055 1041 1055 1033

Fig. 13-3

93BR020.1	TTTAAAACCCTAAGAGCTGAGCAAGCTACACAGGAAGTAAAGGGTTGGATGACAGACA	1080
92NG083.2	AA	1115
90CF056.1	TTAA	1096
92RW009.6		1093
92NG003.1	GAAAC	1116
	-AAAAAAAAAA	1101
93BR029.4	TGTCAAAA	1115
94CY032.3	CTT	1093
96ZM651.8		1086
96ZM751.3	The state of the s	1106
94CY017.41		1088
94IN476.104	AA	1000
		1140
93BR020.1	TTGTTGGTCCAAAATGCGAACCCAGATTGTAAGACCATTTTAAAAGCATTGGGACCAGGG	1140
92NG083.2	AA	1175
90CF056.1	AATCTAGAA	1156
92RW009.6	AAAGAG	1153
92NG003.1	CCGAGA	1176
93BR029.4	CACA	1161
94CY032.3	CC	1175
96ZM651.8	AA	1153
96ZM751.3		1146
	CAA	1166
94CY017.41	AAAAAA	1148
94IN476.104		
		1200
93BR020.1	GCTACACTAGAGGAAATGATGACAGCATGTCAGGGAGTGGGAGGACCTAGCCATAAGGCA	1235
92NG083.2	AA	1216
90CF056.1	TAA	
92RW009.6	TTA	1213
92NG003.1		1236
93BR029.4	AAAAA	1221
94CY032.3	TAAAA	1235
96ZM651.8	TACA	1213
96ZM751.3	GGG	1206
94CY017.41	CTTAA	1226
	TTACA	1208
94IN476.104		
	λ CACCOMMODICACIONATICACIONACIONACIANATICACIONACIANATICACIONACIANACIONACIANACIONACIONACIONACI	1251
93BR020.1	AGAGTTTTGGCTGAGGCAATGAGCCAAGCAACAATACAGCTATAATGATG	1251 1295
92NG083.2	AAAAG	1295
92NG083.2 90CF056.1	AAGCCGTGG-GCAGCAGAGCC	1295 1273
92NG083.2	AAGCCGTGG-GCAGCAGAGCC	1295 1273 1264
92NG083.2 90CF056.1		1295 1273 1264 1293
92NG083.2 90CF056.1 92RW009.6		1295 1273 1264 1293 1275
92NG083.2 90CF056.1 92RW009.6 92NG003.1		1295 1273 1264 1293 1275 1292
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		1295 1273 1264 1293 1275 1292 1264
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-A	1295 1273 1264 1293 1275 1292 1264 1257
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-A	1295 1273 1264 1293 1275 1292 1264
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-A	1295 1273 1264 1293 1275 1292 1264 1257
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		1295 1273 1264 1293 1275 1292 1264 1257 1283 1256
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1335
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1353
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-A	1295 1273 1264 1293 1275 1292 1264 1257 1256 1311 1355 1333 1324 1353 1335 1335
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1353 1324 1353 1352 1352 1324 1317
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1353 1353 1353 1352 1352 1324 1317
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1353 1324 1353 1352 1352 1324 1317
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1324 1317 1340
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1335 1324 1353 1335 1324 1317 1340 1316
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1353 1324 1353 1352 1352 1352 1317 1340 1316
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1353 1352 1353 1352 1353 1353
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1324 1317 1340 1316
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6	-A	1295 1273 1264 1293 1275 1292 1264 1257 1256 1311 1355 1333 1324 1353 13352 1324 1317 1340 1316
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1	-A	1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1324 1317 1340 1316
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92NG083.2		1295 1273 1264 1293 1275 1292 1264 1257 1256 1311 1355 1333 1324 1353 13352 1324 1317 1340 1316
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1353 1324 1353 1335 1324 1317 1340 1316 1371 1415 1393 1415 1393
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1353 1324 1353 1324 1317 1340 1316 1371 1415 1393 1384 1413
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM656.1 92NG003.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 13324 1353 1352 1324 1317 1340 1316 1371 1415 1393 1384 1413 1393
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		1295 1273 1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1324 1353 1335 1324 1317 1340 1316 1371 1415 1393 1413 1413 1413 1413 1413 1413 1413

Fig. 13-4

	POL start	
93BR020.1	GAGGGACACCAAATGAAGGACTGCACTGAGAGACAGGCTAATTTTTTAGGGAAAATTTGG	1431
92NG083.2	TA-AGA-G	1475
90CF056.1	AA	1453
92RW009.6	AA	1444
92NG003.1	AA	1473
93BR029.4	A	1455
94CY032.3		1472
96ZM651.8		1444
96ZM751.3	A	1437 1460
94CY017.41 94IN476.104	AATG	1436
J41N4/0.104	T 0	1100
93BR020.1	CCTTCCAACAAGGGGAGGCCCGGAAACTTCATCCAGAACAGG	1473
92NG083.2	AATC	1517
90CF056.1	GAATTCG	1495
92RW009.6	GA	1486
92NG003.1	AGTTC-T	1515
93BR029.4	CAAGTGA	1497
94CY032.3	GAATC-T	1514 1486
96ZM651.8 96ZM751.3	C-GGGC-TACCAGAGCCAACAGCCCCA	1497
94CY017.41	AATCCTGA	1502
94IN476.104	C	1478
93BR020.1	CCAGAGCCGTCAGCCCCGCCAGCAGAGAGCTTCAGGTTCGGGGAGGAGACAACCCCATCT	1533
92NG083.2	AAAT-GCC	1577
90CF056.1	AAAA	1555
92RW009.6	-TGATG-AA-GATG-TC	1546
92NG003.1	AAAC	1575 1557
93BR029.4		1574
94CY032.3 96ZM651.8	AAAC	1543
96ZM751.3	CTAATG-C	1554
94CY017.41	AAAT-CC	1562
94IN476.104	AACG	1535
93BR020.1	CCGAAGCAGGAGCAGAAAGACGAGGGACTGTACCCTCCCTTAGCTTCCCTCAAATCA	1590
92NG083.2	AAAAA	1631
90CF056.1	GAA-CGCTGAACTAT	1609 1594
92RW009.6 92NG003.1	-TA-C	1629
93BR029.4	T-TCAAG	1614
94CY032.3	-TA-CGGAAATATA	1628
96ZM651.8	GA	1591
96ZM751.3	G	1602
94CY017.41	-TA-T-G-GAC-AGACAAATGC-AT	1619
94IN476.104	AGAAAA	1583
0200000 1	GAG end CTCTTTGGCAACGACCCCTAGTCACAATAAGGGTAGGGGGGACAGCTAAAGGAAGCTCTAT	1650
93BR020.1 92NG083.2	TAC	1691
90CF056.1		1669
92RW009.6		1654
92NG003.1	TATA	1689
93BR029.4		1674
94CY032.3		1688
96ZM651.8		1651
96ZM751.3	GGC-	1662
94CY017.41		1679 1643
94IN476.104	AC	1042
93BR020.1	TAGATACAGGAGCAGATGATACAGTATTAGAAGACGTAAATTTGCCAGGAAAATGGAAAC	1710
92NG083.2	CAA	1751
90CF056.1		1729
92RW009.6	AA	1714
92NG003.1	C	1749
93BR029.4	AAAG	1734
94CY032.3	AA	1748 1711
96ZM651.8 96ZM751.3	-GAA	1722
962M/51.3 94CY017.41	AAAA	1739
94IN476.104	C	1703

Fig. 13-5

93BR020.1	CAAAAATGATAGGGGGAATTGGAGGTTTTATCAAAGTAAAACAGTATGATAGCATACTCA	1770
92NG083.2		1811
90CF056.1	GCAAGGC	1789
92RW009.6		1774
92NG003.1		1809
93BR029.4		1794
94CY032.3		1808
96ZM651.8		1771
96ZM751.3	GAAT-	1782
94CY017.41	CAGGCT-	1799
94IN476.104		1763
93BR020.1	TAGAAATTTGTGGACACAGAGCTATAGGTACAGTGTTAGTAGGACCTACGCCTGTCAACA	1830
92NG083.2	A-A-AGA-A-AGAA-T	1871
90CF056.1	A-A-AGT-	1849
92RW009.6	A-A-AGATAT	1834
92NG003.1	GAAGA-A-AGACAA	1869
93BR029.4	AA	1854
94CY032.3	A-A-AGCAAA	1868
96ZM651.8	-GA-A-AGAAA	1831
96ZM751.3	A-A-AGAAAA	1842
94CY017.41	A-AGCA	1859
94IN476.104	A-A-AGA-A-AGAA	1823
		1000
93BR020.1	TAATTGGAAGAAATATGTTGACCCAGATTGGTTGTACTTTACATTTTCCAATTAGTCCTA	1890
92NG083.2	A-CA-CA-CA-C	1931
90CF056.1	CCA	1909
92RW009.6	A-C	1894
92NG003.1	AAA	1929
93BR029.4	C	1914
94CY032.3	AA	1928
96ZM651.8	TCACA	1891
96 ZM7 51.3	G	1902
94CY017.41	CAA	1919
94IN476.104	G	1883
		1050
93BR020.1	TTGAGACTGTACCAGTAAAATTGAAGCCAGGAATGGATGG	1950
92NG083.2	AGAA	1991
92NG083.2 90CF056.1	A	1991 1969
92NG083.2 90CF056.1 92RW009.6	A	1991 1969 1954
92NG083.2 90CF056.1 92RW009.6 92NG003.1		1991 1969 1954 1989
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		1991 1969 1954 1989 1974
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	A	1991 1969 1954 1989 1974 1988
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	A	1991 1969 1954 1989 1974 1988 1951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-A A	1991 1969 1954 1989 1974 1988 1951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-A A	1991 1969 1954 1989 1974 1988 1951 1962 1979
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-A A	1991 1969 1954 1989 1974 1988 1951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-A A A	1991 1969 1954 1989 1974 1988 1951 1962 1979 1943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-A A	1991 1969 1954 1989 1974 1988 1951 1962 1979 1943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-A A	1991 1969 1954 1989 1974 1988 1951 1962 1979 1943 2010 2051
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	-A A	1991 1969 1954 1974 1988 1951 1962 1979 1943 2010 2051 2029
92NG083.2 90CF056.1 92RW009.3.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	-A A	1991 1969 1954 1988 1951 1962 1979 1943 2010 2051 2029 2014
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	-A A	1991 1969 1954 1989 1974 1988 1951 1962 1979 1943 2010 2051 2005 2014 2049
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-A A A	1991 1969 1954 1989 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-A A	1991 1969 1954 1989 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2048
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-A A	1991 1969 1954 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94LY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY032.3 94CY032.3	-A A	1991 1969 1954 1988 1951 1962 1973 2010 2051 2029 2014 2049 2034 2049 2011 2022
92NG083.2 90CF056.1 92RW009.3.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104. 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-A A A	1991 1969 1954 1988 1951 1962 1973 2010 2051 2021 2014 2049 2034 2048 2041 2048 2039
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94LY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY032.3 94CY032.3	-A A A	1991 1969 1954 1988 1951 1962 1973 2010 2051 2029 2014 2049 2034 2049 2011 2022
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-A A	1991 1969 1954 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2003
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.1 93BR029.3 94CY017.41 94IN476.104 93BR020.1	-A A A	1991 1969 1954 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2049 2039 2003 2070
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1	-A A A	1991 1969 1954 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2049 2039 2003 2070 2111
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	-A A	1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94CY017.41 94IN476.104	-A A	1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2048 2011 2022 2039 2003 2070 2011 2022 2039 2003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2	-A A A	1991 1969 1954 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2049 2039 2003 2070 2111 2089 2074 2109
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.3 96ZM751.3 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2	-A A	1991 1969 1954 1988 1951 1962 1973 2010 2051 2029 2014 2049 2034 2049 2038 2011 2022 2039 2003 2070 2111 2089 2074 2109
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		1991 1969 1954 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2041 2022 2039 2003 2070 2111 2089 2074 2109 2108
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2048 2011 2022 2039 2039 2011 2022 2039 2011 2029 2039 2011 2029 2039 2039 2039 2039 2039 2039 2039
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		1991 1969 1954 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2003 2070 2111 2089 2094 2108 2109 2094 2108 2109 2094 2109 2094 2109 2094 2109 2109 2109 2109 2109 2109 2109 2109
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92RW009.6 92NG003.3 96ZM651.8 96ZM751.3		1991 1969 1974 1988 1971 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2010 2011 2029 2014 2049 2039 2014 2049 2039 2010 2011 2029 2039 2010 2011 2029 2039 2010 2011 2029 2039 2010 2011 2029 2039 2039 2039 2039 2039 2039 2039

Fig .13-6

93BR020.1	AAAAAGACAGTACTAAATGGAGGAAATTAGTAGATTTCAGAGAACTTAATAAAAGAACTC	2130
92NG083.2	AG	2171
90CF056.1	-GGT	2149 2134
92RW009.6	-GG	2169
92NG003.1	T	2154
93BR029.4 94CY032.3	C	2168
96ZM651.8	-GG	2131
96ZM751.3	-GGGA	2142
94CY017.41	TCG	2159
94IN476.104	GGG	2123
0200000 1	AAGATTTTTGGGAGGTTCAATTAGGAATACCGCATCCAGCAGGGTTAAAAAAAGAAAAAGT	2190
93BR020.1 92NG083.2	CCGA-	2231
90CF056.1	AA	2209
92RW009.6	CGACACAC	2194
92NG003.1	CC	2229
93BR029.4	CCGAAAGA	2214
94CY032.3	-GCCAAA-	2228
96ZM651.8	CA	2191
96ZM751.3	-G-CAA	2202 2219
94CY017.41	CA	2183
94IN476.104	C	2203
93BR020.1	CAGTAACAGTACTGGATGTGGGGGATGCATATTTTTCAGTTCCCTTAGATAAGGATTTCA	2250
92NG083.2	GAACAC-T-	2291
90CF056.1	TAA	2269
92RW009.6	GTGAGC	2254
92NG003.1	AG-AA-CT-	2289 2274
93BR029.4	AAAC	2274
94CY032.3		2251
96ZM651.8 96ZM751.3	G	2262
94CY017.41	C	2279
94IN476.104	G	2243
		2210
93BR020.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC	2310 2351
92NG083.2	-ATATGAAT- -ATGAAT-	2329
90CF056.1 92RW009.6	ATTTAAT-	2314
92NG003.1	-ATATTTAT	2349
93BR029.4	AGCAT	
94CY032.3		2334
7461032.3	AAAAAAAA	2334 2348
96ZM651.8	AT	2348 2311
		2348 2311 2322
96ZM651.8 96ZM751.3 94CY017.41		2348 2311 2322 2339
96ZM651.8 96ZM751.3		2348 2311 2322
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	AT	2348 2311 2322 2339
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		2348 2311 2322 2339 2303
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		2348 2311 2322 2339 2303
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		2348 2311 2322 2339 2303 2370 2411 2389 2374
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2430 2471
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2471 2449
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2430 2471 2449 2434
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2471 2449
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2471 2449 2449 2449
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR022.4 94CY032.3		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2471 2449 2454
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2471 2449 2454 2469 2454 2468 2431 2442
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1		2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2471 2449 2454 2468 2454 2468 2431

Fig. 13-7

93BR020.1	ATGATTTGTATGTAGGGTCTGACTTAGAAATAGGACAGCATAGAACAAAAATAGAAGAGT	2490
92NG083.2	GG	2531
90CF056.1	GGG	2509
92RW009.6	CGGG	2494
92NG003.1		2529
93BR029.4	GTGGA-	2514
94CY032.3	GAC	2528
96ZM651.8	CCA	2491
96ZM751.3	CAT	2502
94CY017.41	C	2519
94IN476.104	CGG	2483
93BR020.1	TAAGAGAACATCTACTGAAATGGGGATTAACTACACCAGACAAAAACATCAAAAAGAAC	2550
92NG083.2	TGGC	2591
90CF056.1	CTT-GTGGG	2569
92RW009.6	G	2554
92NG003.1	A-T	2589
93BR029.4	-GC-GT-GTGGTC	2574
94CY032.3	G	2588
96ZM651.8		2551
96ZM751.3		2562
94CY017.41	G-CTCTT	2579
94IN476.104	CT-AGTG	2543
0200000 1		2610
93BR020.1	CCCCATTCCTTTGGATGGGGTATGAACTCCATCCTGATAAATGGACAGTGCAGCCTATAC -TGAAGAAGAA	2651
92NG083.2		2629
90CF056.1		2614
92RW009.6	-TT	2649
92NG003.1	-TGAAGGAAGAA	2634
93BR029.4	C	2648
94CY032.3 96ZM651.8	AA	2611
96ZM751.3	A	2622
94CY017.41	-TAGT	2639
94IN476.104	A	2603
JAINA 10 . I DA		
93BR020 1	A A TTTGCC A GA CA A GGA CA GCTGGA CTGTCA A TGA TA TA CA GA A GTTA GTA GGA A A A CTA A	2670
93BR020.1 92NG083.2	AATTGCCAGACAAGGACAGCTGGACTGTCAATGATATACAGAAGTTAGTAGGAAAACTAA	2670 2711
92NG083.2	-GCAGG	2670 2711 2689
92NG083.2 90CF056.1	-GCAG	2711
92NG083.2	-GCAG	2711 2689
92NG083.2 90CF056.1 92RW009.6	-GCAG	2711 2689 2674
92NG083.2 90CF056.1 92RW009.6 92NG003.1	-GCA	2711 2689 2674 2709
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-GCAG	2711 2689 2674 2709 2694
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-GCAAGAT	2711 2689 2674 2709 2694 2708
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-GC A AGAT	2711 2689 2674 2709 2694 2708 2671
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-GCAAGAT	2711 2689 2674 2709 2694 2708 2671 2682
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-GC A AGAT	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-GCAAGATAG	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-GC A AGAT	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754 2768
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.1 93BR029.4 94CY032.3 96ZM651.8	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754 2754 2768 2731
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2689 2663 2730 2771 2749 2734 2769 2754 2768 2731 2741
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-GC A AGAT A G G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754 2768 2731 2769
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2689 2663 2730 2771 2749 2734 2769 2754 2768 2731 2741
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-GC - A - A - A - A - G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2771 2749 2734 2769 2754 2768 2731 2741 2759 2723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2689 2663 2730 2771 2749 2734 2769 2754 2768 2731 2741 2759 2723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	-GC A A A G	2711 2689 2674 2709 2694 2708 2671 2689 2663 2730 2771 2749 2734 2769 2754 2768 2731 2741 2759 2723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	-GC A - A	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754 2768 2731 2741 2759 2723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104	-GC A - A - A	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2754 2768 2754 2759 2759 2723 2790 2831 2809 2794
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	-GC A A A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2754 2768 2754 2754 2759 2723 2790 2831 2809 2809 2829
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	-GC A A - A G	2711 2689 2674 2709 2694 2708 2671 2689 2663 2730 2771 2749 2734 2769 2754 2768 2731 2741 2759 2723 2790 2831 2809 2794 2829 2814
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	-GC - A - A - A - G	2711 2689 2674 2709 2694 2708 2671 2689 2663 2731 2749 2754 2769 2754 2759 2723 2790 2831 2809 2794 2829 2414 2828
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	-GC - A - A - A - G - G - G - G - G - G - G	2711 2689 2674 2709 2694 2708 2682 2699 2663 2730 2771 2749 2754 2769 2754 2768 2731 2759 2723 2790 2831 2809 2682 2794 2829 2814 2828 2791
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-GC A - A AGAT A G G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2731 2749 2754 2754 2754 2759 2754 2759 2723 2790 2831 2829 2814 2828 2921 2801
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92NG083.2 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8	-GC - A - A - A - G - G - G - G - G - G - G	2711 2689 2674 2709 2694 2708 2682 2699 2663 2730 2771 2749 2754 2769 2754 2768 2731 2759 2723 2790 2831 2809 2682 2794 2829 2814 2828 2791

Fig. 13-8

93BR020.1	AGAATAGGGAGATTCTAAAAGAACCAGTACATGGGGCATATTATGACCCGTCAAAAGACT	2850
92NG083.2	CAA-TCCA-TCA-TCA-TCA-TC	2891
90CF056.1	-AC	2869
92RW009.6	-ACATA-TA-T	2854
92NG003.1	CAA-TCCA-	2889
93BR029.4	-AC	2874
94CY032.3	CAA	2888
96ZM651.8	C-AATTA	2851
96ZM751.3	GCAATA	2861
94CY017.41	CATACCTTCA	2879
94IN476.104	CAA	2843
941N4/6.104		
93BR020.1	TAATAGCAGAAATACAGAAACAAGGGCAAGGGCAATGGACATATCAAATTTATCAAGAGC	2910
92NG083.2	GG	2951
90CF056.1	GG	2929
92RW009.6	A-	2914
92NG003.1	TTTTGC-AC	2949
		2934
93BR029.4	AAA	2948
94CY032.3	-GTCGA-	2911
96ZM651.8	GGA-	2921
96ZM751.3	GA-	2939
94CY017.41	T	2903
94IN476.104	The state of the s	2,00
93BR020.1	CATTTAAAAATCTAAAAACAGGAAAGTATGCAAAAATGAGGTCTGCCCACACTAATGATG	2970
92NG083.2	ACA	3011
90CF056.1	A	2989
	C	2974
92RW009.6	ACG	3009
92NG003.1	A	2994
93BR029.4	CA	3008
94CY032.3	CGGA-A	2971
96ZM651.8	CG	2981
96ZM751.3	-CGA	2999
94CY017.41	C	2963
94IN476.104	C 	
0200000 1	TAAAACAGTTAACAGAAGCAGTGCAAAAGATATCTCTAGAAAGCATAGTAATATGGGGCA	3030
93BR020.1	AAAG-CACGGA-	3071
92NG083.2	AACA	3049
90CF056.1	A-	3034
92RW009.6	AG-CACGA-	3069
92NG003.1	ACAAAAAAA	3054
93BR029.4	-T-GAA-	3068
94CY032.3	-T-GA	3031
96ZM651.8	AG-CA-GAAAAA	3041
96ZM751.3	- G-G-G-A-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-	3059
94CY017.41	AAAA	3022
94IN476.104	AG-CAAAAAA	3022
0000000 1	AGACTCCTAAGTTTAGACTACCCATATTAAAAGAGACATGGGATACATGGTGGACAGAGT	3090
93BR020.1	TAATCGAAGT	3131
92NG083.2	-A-TGC	3109
90CF056.1	-A-TACCAGAC	3094
92RW009.6	A COLOR	3129
92NG003.1	-AGTAAAAAA	3114
93BR029.4	TAA	3128
94CY032.3		3091
96ZM651.8	TA	3101
96ZM751.3	TG	_
94CY017.41		3119
94IN476.104	CA	3082
		3150
93BR020.1	ACTGGCAAGCCACCTGGATTCCTGAGTGGGAGTTTGTCAATACCCCCCCTCTAGTAAAAC	3191
92NG083.2	T	3191
90CF056.1	-TT-AT	
92RW009.6	-TTCT	3154
92NG003.1	-TGT	3189
93BR029.4	-TTCTGT	3174
94CY032.3	-TGT	3188
96ZM651.8	-TT-TCTT	3151
96ZM751.3	_TTTCT	3161
9407017 41	-TGTT	3179
		3142
94IN476.104	-TTCT	2111

Fig. 13-9

	TATGGTATCAGTTAGAAACAGAGCCCATAGTAGGAGCAGAAACCTTCTATGTAGATGGGG	3210
93BR020.1 92NG083.2	AAAAT-A	3251
90CF056.1	T-AA	3229
92RW009.6	GG-AAA-	3214
92NG003.1	GAA	3249
93BR029.4	T	3234
94CY032.3	CT	3248
96ZM651.8	A-	3211 3221
96ZM751.3	CC-G-G-AA	3239
94CY017.41 94IN476.104		3202
941N476.104	·	3233
93BR020.1	CATCTAATAGAGAGACCAAAAAAGGAAAAGCAGGATATGTTACTGACAGAGGAAGACAAA	3270
92NG083.2	GAAAAAA	3311
90CF056.1	G	3289
92RW009.6	GG	3274
92NG003.1	GAATTGA	3309 3294
93BR029.4	G	3308
94CY032.3 96ZM651.8	G-CGATTT	3271
96ZM751.3	G-CGAT	3281
94CY017.41	G	3299
94IN476.104	G	3262
93BR020.1	AAGCGGTCTCCCTAACTGAGACTACAAATCAGAAGGCTGAGTTACAAGCAATTCAGTTAG	3330
92NG083.2	ATTA-TAAAAA	3371
90CF056.1	TT	3349 3334
92RW009.6	ATTTTAAA	3369
92NG003.1 93BR029.4	TTC	3354
94CY032.3	TTTAAAT-C	3368
96ZM651.8	ATTTA-T	3331
96ZM751.3	ATTTA-TAAAAA	3341
94CY017.41	ATT	3359
94IN476.104	ATTTTTAAAA	3322
0200000 1	CTTTACAGGATTCAGGATCAGAAGTAAACATAGTAACAGACTCACAGTATGCATTAGGAA	3390
93BR020.1 92NG083.2	GCAC	
		3431
90CE056 1	G	3431 3409
90CF056.1 92RW009.6	GAG-TGGTT	3431 3409 3394
92RW009.6	GAG-TGT	3409
	GAG-TGT	3409 3394
92RW009.6 92NG003.1	GAG-TGT	3409 3394 3429 3414 3428
92RW009.6 92NG003.1 93BR029.4	GAG-TGT	3409 3394 3429 3414 3428 3391
92RW009.6 92NG003.1 93BR029.4 94CY032.3	GAG-TGTC	3409 3394 3429 3414 3428 3391 3401
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GAG-TGTC	3409 3394 3429 3414 3428 3391 3401 3419
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GAG-TGTC	3409 3394 3429 3414 3428 3391 3401
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GAGTGTC	3409 3394 3429 3414 3428 3391 3401 3419
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GAG-TGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	GAG-TGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	GAG-TGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469 3454
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	GAG-TGGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469 3454 3489
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469 3454 3489 3474
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469 3454 3488
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469 3454 3489 3474 3488 3451
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GAG-TGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3454 3454 3488 3474 3488 3451 3461
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469 3454 3488 3451
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469 3454 3454 3474 3488 3474 3488 3474
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469 3454 3488 3451 3461 3479 3442
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1		3409 3394 3429 3414 3428 3391 3401 3489 3450 3491 3469 3454 3489 3474 3488 3451 3461 3479 3442
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1	GAG-TGGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3454 3469 3474 3488 3451 3479 3442 3510 3551 3529
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6	GAG-TGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3451 3469 3474 3488 3471 3461 3479 3442 3510 3551 3529 3514
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3454 3469 3474 3488 3451 3479 3442 3510 3551 3529
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3454 3469 3454 3451 3461 3479 3442 3510 3551 3551 3514
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		3409 3394 3429 3414 3428 3391 3401 3419 3489 3454 3488 3474 3488 3474 3488 3474 3488 3451 3479 3442 3511 3534
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1	GAGGTC	3409 3394 3429 3414 3428 3391 3401 3489 3454 3454 3454 3451 3469 3474 3488 3451 3461 3479 3442 3510 3529 3514 3534 3534 3511 3521
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		3409 3394 3429 3414 3428 3391 3401 3419 3489 3454 3488 3474 3488 3474 3488 3474 3488 3451 3479 3442 3511 3534

Fig. 13-10

0200020 1	ATGAACAAGTAGATAAATTAGTCAGTGCTGGAATCAGGAAAGTACTGTTTCTAGATGGGA	3570
93BR020.1 92NG083.2	GCAGC-	3611
		3589
90CF056.1		3574
92RW009.6	AGAG	3609
92NG003.1	AA-	3594
93BR029.4		3608
94CY032.3	AGGATA-	
96ZM651.8	GACAAGA-	3571
96ZM751.3	AAAAAAAAA	3581
94CY017.41		3599
94IN476.104	TGAAGT	3562
93BR020.1	TAGATAAGGCACAAGAGGAACATGAAAAATATCACAACAATTGGAGAGCAATGGCTAGTG	3630
92NG083.2	GG	3671
90CF056.1	ATGT	3649
92RW009.6	GG	3634
92NG003.1	CATCG	3669
93BR029.4	TT	3654
94CY032.3	TCTC	3668
96ZM651.8	CTAG	3631
96ZM751.3		3641
94CY017.41	G	3659
94IN476.104	ATATAT	3622
J41N470.104	1 R 1	5522
93BR020.1	ATTTTAATATACCAGCTGTAGTAGCAAAAGAAATAGTAGCTAGC	3690
92NG083.2	GCA-	3731
	CA	3709
90CF056.1		3694
92RW009.6		
92NG003.1		3729
93BR029.4	-CC	3714
94CY032.3	AA	3728
96ZM651.8	-ATT	3691
96ZM751.3	-GC-GC-CA	3701
94CY017.41	-CCC	3719
94IN476.104	-GC-GC-CAC	3682
93BR020.1	TAAAAGGGGAAGCCATGCATGGACAAGTAGATTGTAGCCCAGGGATATGGCAATTAGATT	3750
93BR020.1 92NG083.2	TAAAAGGGGAAGCCATGCATGGACAAGTAGATTGTAGCCCAGGGATATGGCAATTAGATT	3750 3791
	AAA	
92NG083.2 90CF056.1	AAA	3791
92NG083.2 90CF056.1 92RW009.6		3791 3769
92NG083.2 90CF056.1 92RW009.6 92NG003.1		3791 3769 3754
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		3791 3769 3754 3789
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		3791 3769 3754 3789 3774 3788
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		3791 3769 3754 3789 3774 3788 3751
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		3791 3769 3754 3789 3774 3788 3751 3761
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		3791 3769 3754 3789 3774 3788 3751 3761 3779
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		3791 3769 3754 3789 3774 3788 3751 3761
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		3791 3769 3754 3789 3774 3788 3751 3761 3779 3742
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		3791 3769 3754 3789 3774 3788 3751 3761 3779 3742
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		3791 3769 3754 3789 3774 3788 3751 3761 3779 3742 3810 3851
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		3791 3769 3754 3788 3774 3788 3751 3779 3742 3810 3851 3829
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		3791 3769 3754 3778 3774 3788 3751 3761 3779 3742 3810 3851 3851 3829 3814
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		3791 3769 3754 3789 3774 3788 3751 3761 3779 3742 3810 3851 3851 3814 3849
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4		3791 3769 3754 3789 3774 3788 3751 3761 3779 3742 3810 3851 3829 3814 3849
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		3791 3769 3754 3788 3774 3788 3751 3761 3742 3810 3851 3829 3814 3849 3848
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4		3791 3769 3774 3788 3774 3785 3761 3779 3742 3810 3851 3849 3844 3848 3811
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		3791 3769 3754 3789 3774 3788 3751 3761 3742 3810 3851 3829 3814 3849 3834 3848 3811 3821
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		3791 3769 3754 3789 3774 3781 3761 3779 3742 3810 3851 3821 3834 3848 3814 3838 3838
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		3791 3769 3754 3789 3774 3788 3751 3761 3742 3810 3851 3829 3814 3849 3834 3848 3811 3821
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	C T A A	3791 3769 3774 3788 3771 3779 3742 3810 3851 3829 3814 3849 3834 3831 3821 3839 3802
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		3791 3769 3754 3778 3774 3761 3779 3742 3810 3851 3849 3844 3848 3811 3839 3802
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		3791 3769 3754 3789 3774 3788 3751 3761 3742 3810 3851 3829 3814 3849 3834 3849 3834 3839 3802 3870 3911
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		3791 3769 3754 3789 3774 3788 3751 3761 3779 3810 3851 3829 3814 3849 3834 3848 3811 3821 3839 3802 3870 389
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1		3791 3769 3754 3789 3774 3788 3751 3761 3742 3810 3851 3849 3834 3849 3834 3838 3811 3839 3802
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1	C T A A C C T C C T C C C T C C C T C C C T C C C T C C C T C C C T C C C C T C C C C T C	3791 3769 3754 3789 3774 3788 3751 3761 3779 3810 3851 3829 3814 3849 3834 3848 3811 3821 3839 3802 3870 389
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6	C T A A C C C T C C C C C C C C C C C C	3791 3769 3774 3788 3771 3779 3742 3810 3851 3829 3814 3848 3811 3821 3839 3870 3871 3874
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		3791 3769 3774 3788 3774 3779 3742 3810 3851 3849 3844 3848 3811 3821 3839 3802 3870 3871 3874 3890
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2		3791 3769 3754 3788 3774 3788 3751 3761 3742 3810 3851 3852 3814 3849 3834 3849 3832 3811 3839 3802 3870 38911 3889 3894 3894
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1		3791 3769 3754 3788 3774 3781 3761 3742 3810 3851 3824 3849 3834 3841 3839 3802 3870 3874 3889 3894 3908
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		3791 3769 3774 3788 3771 3779 3742 3811 3829 3814 3849 3834 3811 3839 3871 3891 3894 3994 3994 3991 3881
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94IN476.104 93BR020.1 93BR020.1 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8 96ZM751.3		3791 3769 3774 3788 3771 3779 3742 3811 3829 3814 3848 3811 3821 3839 3871 3891 3891 3891 3891 3894 3991 3894

Fig. 13-11

92NG083.2	93BR020.1	CAGGAAGATGGCCAGTAAAAACAATACATACAGACAATGGCACCAATTTCACCAGTGCCA
90CF956.1 -A-C		
92RW009.6		
92NB003.1		
93BR029.4		
94CY032.3		
952M551.8		
96ZM751.3 94CY017.41 95R020.1 95R020.1 95R030.2 95R030.2 95R030.3		
94CY017.41 94IN476.104 97		
94IN476.104		
93BR020.1 CGGTTAAGGCAGCTTGTTGGTGGCAGGAGTATCCAGCAGGAATTTGGAATTCCTTACAACC 92RM033.2 -A-A	94CY017.41	GCTA-
92NG083.2	94IN476.104	T-GTT-TG
92NG083.2		
90CF056.1	93BR020.1	CGGTTAAGGCAGCTTGTTGGTGGGCAGGTATCCAGCAGGAATTTGGAATTCCTTACAACC
90CF056.1	92NG083.2	-AA
92RW009.6	90CF056.1	
92NG003.1		
93BR029.4		
94CY032.3		
962M751:3		-AC
96ZM751.3	-	
94CY017.41 - A - C - A - A - G - C - T - 4 94IN476.104 - A - C - A - C - A - C - T - 3 93BR020.1		
94IN176.104		
93BR020.1 CCCAAAGTCAAGGAGTAGAATCTATGAATAAGAGCTAAAGAAAATCATAGGACAGA 92MG083.2		-A
92NG083.2	94IN476.104	-A
92NG083.2		
90CF056.1	93BR020.1	CCCAAAGTCAAGGAGTAGTAGAATCTATGAATAAAGAGCTAAAGAAAATCATAGGACAGA
90CF056.1	92NG083.2	GAT
92RW009.6	90CF056.1	
92NG003.1		
93BR029.4	92NG003.1	
94CY032.3		
96ZM751.3		
94CY017.41		
94CY017.41		
93BR020.1 TAAGAGATCAAGCTGAACATCTTAAGACAGCAGTCCAAAATGGCAGTATTCATCACAATT 422NG083.2		
93BR020.1 TAAGAGATCAAGCTGAACATCTTAAGACAGCAGTCCAAATGGCAGTATTCACTACTTACACAATT 4 92NR0083.2 -TG		
92R0093.2	941N476.104	ATTGG
92R0093.2		
90CF056.1		
92RW009.6		
92NG003.1		
93BR029.4		AAAA
94CY032.3	90CF056.1	AAAA
94CY032.3	90CF056.1 92RW009.6	AAGCGAA
96ZM651.8GGAAA	90CF056.1 92RW009.6 92NG003.1	AA
96ZM751.3 94CY017.41 994IN476.104 993BR020.1 TTAAAAAGAAAAAGGGGGGATTGGGGGATACAGTGCAGGGGAAAGAACAATAGACATAATAG 92RW009.6 92RW009.6 92RW003.1 993BR029.4 994CY032.3 996ZM751.3 994CY017.41 993BR020.1 CAACAGACATACAAACTAGAGAATTACAAAAACAAATTATAAAAATTCAAAATTTCCGGG 992RW009.6 993BR020.1 CAACAGACATACAAACTAGAGAATTACAAAAACAAATTATAAAAATTCAAAATTTCCGGG 409CF056.1 992RW009.6 993BR020.1 CAACAGACATACAAACTAGAGAATTACAAAAACAAATTATAAAAATTCAAAATTTCCGGG 409CF056.1 993BR020.1 CAACAGACATACAAACTAGAGAATTACAAAAACAAATTATAAAAATTCAAAATTTCCGGG 409CF056.1 993BR020.1 P93BR020.1 P9	90CF056.1 92RW009.6 92NG003.1 93BR029.4	
94CY017.41	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	CACA
93BR020.1 TTAAAAGAAAAGGGGGGGATTGGGGGATACAGTGCAGGGGAAAGAACAATAGACATAATAG 92NG083.2	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	CACAA
93BR020.1 TTAAAAGAAAAGGGGGGATTGGGGGATACAGTGCAGGGGAAAGAACAATAGACATAATAG 492RW009.6	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	CACA
92NG083.2	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	
92NG083.2	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	
90CF056.1	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	
92RW009.6	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	
92NG003.1	90CF056.1 92RW009.6 92RW009.1 93BR029.1 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	CACA
93BR029.4	90CF056.1 92RW009.6 92RW009.1 92RW009.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	CACA
93BR029.4	90CF056.1 92RW009.6 92RW009.6 92RW003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW0083.2 90CF056.1 92RW009.6	
94CY032.3	90CF056.1 92RW009.6 92RW009.6 92RW003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW0083.2 90CF056.1 92RW009.6	
96ZM651.8AGT4 96ZM751.3AGT	90CF056.1 92RW009.6 92RW009.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92DG083.2 90CF056.1 92RW009.6 92RW009.6	
96ZM751.3	90CF056.1 92RW009.6 92RW009.6 92RW009.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6	
94CY017.41	90CF056.1 92RW009.6 92RW009.6 92RW009.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 92RW009.1 93BR029.4 94CY032.3	
94IN476.104	90CF056.1 92RW009.6 92RW009.4 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.6 92RW009.4 94CY032.3 96ZM651.8	
93BR020.1 CAACAGACATACAAACTAGAGAATTACAAAAACAAATTATAAAAATTTCCGGG 4292NG083.2 -TTAC	90CF056.1 92RW009.6 92RW009.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6	
92NG083.2 -TTAC	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.6 92RW009.4 94CY032.3 94CY032.3	
92NG083.2TTAC	90CF056.1 92RW009.6 92RW009.6 92RW009.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 94CY032.3 94CY032.3 94CY017.41	
90CF056.1	90CF056.1 92RW009.6 92RW009.6 92RW009.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94Y017.41 94Y017.41 92RG083.2 90CF056.1 92RG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	
92RW009.6	90CF056.1 92RW009.6 92RW009.4 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 92RW009.6 94CY017.41 94CY017.41 94IN476.104	
92NG003.1TTACG	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY032.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1	
93BR029.4	90CF056.1 92RW009.6 92NG003.1 92SBR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.1 93BR029.4 94CY032.3 94CY032.3 94CY017.41 94IN476.104	
94CY032.3TTAC	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.6 94CY032.3 96ZM651.8 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY032.3 94CY017.41 94IN476.104	
94CY032.3TTAC	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	
96ZM651.8AT 42 96ZM751.3TAT 42 94CY017.41TACGC	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6	
96ZM751.3TACGC	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6	
94CY017.41TACGT 42	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.6 92RW009.3 94CY032.3 96ZM751.3 94CY017.41	
	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.1 94IN476.104 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104	
	90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	

Fig. 13-12

1 0200020	TTTATTACAGGGACAGCAGAGCCCAGTTTGGAAAGGACCAGCAAAGCTACTCTG	GAAAG 4290
93BR020.1 92NG083.2	111A11ACAGGGACAGCAGAGACCCAG111GGAAAGGACCAGCAAAGC1AC1CIG	
90CF056.1	AC	
92RW009.6	CA	
92NG003.1	-CAA	
93BR029.4	ATCTT	
94CY032.3	GAA	
96ZM651.8	ACAC-A	
96ZM751.3	ATA	
94CY017.41	ACT	
94IN476.104		
93BR020.1	GTGAAGGGCAGTAGTCATACAAGACAATAGTGAAATAAAGGTAGTTCCAAGAAG	AAAAG 4350
92NG083.2	AAAAAAA	4391
90CF056.1	AAA	
92RW009.6		4354
92NG003.1	GAA	4389
93BR029.4		4374
94CY032.3		4388
96ZM651.8	AGAG	G 4351
96ZM751.3		G 4361
94CY017.41	CAA	
94IN476.104		G 4342
	VIF start	
93BR020.1	CAAAGATCATTAGGGATTATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGG	
92NG083.2	GG	
90CF056.1	AA-	
92RW009.6	m ,	4414
92NG003.1	TAG	
93BR029.4	TG	4434
94CY032.3		4448
96ZM651.8 96ZM751.3	A	4411 4421
94CY017.41	AACACA	4421
94IN476.104		
341N4/0.1U4	POL end	4402
	1 OL CIU 🚐	
93BR020 1	- ACCATCACCATTÃ ACACATCCA A ACTTTACTA A ATACCATATCCATATTTCA A	AGAAA 4470
93BR020.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAAATACCATATGCATATTTCAA	AGAAA 4470
92NG083.2	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511
92NG083.2 90CF056.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489
92NG083.2 90CF056.1 92RW009.6	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474
92NG083.2 90CF056.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509
92NG083.2 90CF056.1 92RW009.6 92NG003.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4494
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4494
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4508 G 4471
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4494 4508 G 4471 -A-G- 4481 G 4499
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4494 4508 G 4471 -A-G- 4481 G 4499
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4494 4508 G 4471 -A-G- 4481 G 4499
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4494 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462 CCAGAA 4530 4571
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462 CAGAA 4530 4549
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4494 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462 CAGAA 4530 4549 4549
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4508 G 4471 -A-G- 4481 G 4482 GAGAA 4530 4571 4549 4549
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4494 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462 CAGAA 4530 4549 4549 4569 4554
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4494 4508 G 4471 G 4499 GA-G- 4462 CAGAA 4530 4571 4549 4554 4568
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6 92NG09.6 92NG09.4 94CY032.3 96ZM651.8	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4508 G 4471 -A-G- 4481 G 4489 GA-G- 4462 CAGAA 4530 4571 4549 4569 4568 4568
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4494 4508 G 4471 -A-G- 4481 G 4482 GA-G- 4462 CAGAA 4530 4549 4549 4554 4554 4568 4554 4568
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462 CAGAA 4530 4571 4549 4569 4568 4568 4554 4554
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462 CAGAA 4530 4571 4549 4569 4568 4568 4554 4554
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4471 4508 G 4481 G 4499 GA-G- 4462 CAGAA 4530 4571 4549 4568 4568 4568 4568 4568 4568 4559 4522
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4509 4508 G 4471 -A-G- 4481 G 4489 GA-G- 4462 CAGAA 4530 4571 4549 4569 4568 4568 4531 4559 4522
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4474 4508 G 4471 -A-G- 4481 G 4481 G 4462 CAGAA 4530 4571 4534 4569 4554 4569 4554 4554 4559 4522 CTTCCA 4590 A-G 4631
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4479 4509 4508 G 4471 G 4471 G 4489 GA-G- 4462 CAGAA 4530 4571 4549 4554 4554 4554 4554 4554 4554 4554 4554 4554 4559 4552 TTCCA 4590 A-G 4631 A-A 4609
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4471 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462 CAGAA 4530 4571 4549 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4590 AAA 4690 AAA 4699 AAA 4594
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4471 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462 CAGAA 4530 4571 4549 4569 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4569 A541 4599 AAA 4629
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG033.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4470 4508 G 4471 -A-G- 4481 G 4481 G 4462 CAGAA 4530 4549 4554 4554 4554 4554 4554 4554 4554 4569 4571 4581 4581 4581 4590 A-G 4631 A-A 4609 AAA 4629 A-A 4614
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92NG083.2	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4470 4508 G 4471 -A-G- 4481 G 4481 G 4482 G 4530 4534 4554 4569 4554 4554 4559 4559 4522 TTCCA 4590 AA-A 4629 AAA 4628 A-A 4624 AG 4628
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4509 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462 CAGAA 4530 4571 4549 4534 4568 4568 4568 4568 4568 4568 4568 4568 4568 4568 4569 A-G- 4609 AAA 4609 AAA 4629 AAA 4629 AAA 4628 AAA 4628 AAA 4628
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	AGGATGAGGATTAACACATGGAAAAGTTTAGTAAAATACCATATGCATATTTCAA	4511 G 4489 GG- 4471 4508 G 4471 -A-G- 4481 G 4499 GA-G- 4462 CAGAA 4530 4571 4549 4568 4569 AAA 4629 AAA 4629 AAA 4629 AAA 4629 AAA 4629 AAA 4614 AGG 4601

Fig. 13-13

93BR020.1	GGAGAAAGAGAATGGCATCTGGGTCAGGGAGTCTCCATAGAATGGAGGCAGGGGAGGTAT	4650
92NG083.2	ACATCTGT	4691
90CF056.1	A-T-AA	4669
92RW009.6	GATT-A-AA	4654
92NG003.1	AAAAA	4689
	TT	4674
93BR029.4	GCACTCA-AA	4688
94CY032.3	-GCACTCA-A-A	4651
96ZM651.8	TTATT-A-A-AA	
96ZM751.3	GATT-A-AAC	4661
94CY017.41	ACT	4679
94IN476.104	ATTA-A	4642
93BR020.1	AGAACAAATAGACCCTGGCCTGGCAGACCAACTGATCCATATATTATTTTGATTGT	4710
92NG083.2	T	4751
90CF056.1	CGC	4729
	-AGGC	4714
92RW009.6	-AGGC	4749
92NG003.1	C	
93BR029.4	G	4734
94CY032.3	CG-GTA	4748
96ZM651.8	CG	4711
96ZM751.3	CGA	4721
94CY017.41	CATC-GC	4739
94IN476.104	CGC	4702
941N4/6.104		
0000000 1	TTTTCAGAATCTGCCATAAGGAAAGCCATATTAGGACATAAAATTAGCCCTAGGTGTAAC	4770
93BR020.1	TITICAGAATCIGCCATAAAGCCATATTAGGACATAAAATTAGGCCTAGGT	4811
92NG083.2	G-G-T-G	
90CF056.1	G-GT-GA	4789
92RW009.6	GT-G	4774
92NG003.1	GG	4809
93BR029.4	GG-T	4794
94CY032.3		4808
96ZM651.8	GC	4771
	GC	4781
96ZM751.3		4799
94CY017.41		
94IN476.104	GCA	4762
93BR020.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4830
93BR020.1 92NG083.2	C-CTCTCG	4871
92NG083.2	C-CTCG-AG- CACATCTT	
92NG083.2 90CF056.1	C-CTCG-AG- CACATCTT	4871
92NG083.2 90CF056.1 92RW009.6	C-C	4871 4849
92NG083.2 90CF056.1 92RW009.6 92NG003.1	C-C	4871 4849 4834
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	C-C	4871 4849 4834 4869 4854
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	C-C	4871 4849 4834 4869 4854 4868
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		4871 4849 4834 4869 4854 4868 4831
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-C-CTCTCG-AG	4871 4849 4834 4869 4854 4868 4831 4841
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-C-CTCTCG-AGCACAG-G-G	4871 4849 4834 4869 4854 4868 4831 4841 4859
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-C-CTCTCG-AGCACAGTCTCG-AGG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-C-CTGG	4871 4849 4834 4869 4854 4868 4831 4841 4859
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-C-CT	4871 4849 4834 4869 4854 4868 4831 4841 4859 4852 28 start 4890
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-C-CT	4871 4849 4834 4869 4854 4854 4841 4859 4822
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-C-CTCTCG-AGCACATCTCG-AGGG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4852 28 start 4890
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	-C-CT	4871 4849 4834 4869 4854 4868 4831 4841 4859 28 start 4890 4931
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	-C-CTGGGGGG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 PR start 4890 4931 4909 4894
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	-C-CTCTCG-AGC-CACACAGC-CACA	4871 4849 4834 4869 4854 4868 4831 4841 4845 4822 PR start 4890 4931 4909 4894 4929
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-C-CTCTCG-AG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4892 2R start 4890 4931 4909 4894 4929 4914
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-C-C	4871 4849 4834 4869 4854 4868 4831 4841 4859 4859 4890 4931 4909 4894 4914 4928
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-C-C	4871 4849 4834 4869 4854 4868 4831 4859 4822 28 start 4890 4931 4909 4914 4929 4914 4928 4891
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-C-C	4871 4849 4834 4869 4854 4868 4831 4841 4822 PR start 4890 4931 4994 4929 4914 4929 4914 4929
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-C-C	4871 4849 4834 4869 4854 4868 4831 4841 4852 28 start 4890 4931 4994 4914 4928 4891 4929 4914 4929
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-C-C	4871 4849 4834 4869 4854 4868 4831 4841 4822 PR start 4890 4931 4994 4929 4914 4929 4914 4929
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-C-C	4871 4849 4834 4869 4854 4868 4831 4841 4822 28 start 4890 4931 4909 4914 4928 4891 4901 4919
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-C-C	4871 4849 4834 4869 4854 4868 4831 4841 4822 28 start 4890 4931 4909 4914 4928 4891 4901 4919
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.1 93BR020.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-C-C	4871 4849 4834 4869 4854 4868 4831 4859 4822 28 start 4890 4909 4914 4928 4928 4891 4901 4919 4882
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	-C-C	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 PR start 4890 4931 4909 4914 4929 4914 4928 4891 4901 4891 4901 4901 4892
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	-C-C	4871 4849 4834 4869 4854 4868 4831 4841 4859 4892 4931 4999 4914 4928 4891 4929 4914 4928 4891 4919 4882
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6	-C-C	4871 4849 4834 4869 4854 4868 4831 4859 4822 PR start 4909 4914 4909 4914 4919 4891 4919 4891 4919 4891 4919 4891 4919 4919
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6	-C-C	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 PR start 4890 4914 4909 4914 4914 4914 4914 4914 49
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2	-C-C	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 PR start 4890 4931 4991 4991 4991 4991 4991 4991 4991
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.2 90CF056.1 92RW009.6 92NG003.2	-C-C - T	4871 4849 4834 4869 4854 4868 4831 4841 4822 PR start 4890 4931 4994 4991 4991 4991 4991 4991 4991
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2	-C-C - T - T - T - T - T - T - T - G - G - G	4871 4849 4854 4868 4851 4859 4852 PR start 4901 4909 4914 4928 4914 4914 4914 4914 4914 4914 4951 4951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.2 90CF056.1 92RW009.6 92NG003.2	-C-C	4871 4849 4834 4854 4854 4851 4852 4821 4852 78 start 4890 4914 4914 4914 4914 4914 4914 4914 49
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1		4871 4849 48349 4854 4854 4851 4851 4852 20 8 start 48931 4994 4991 4991 4991 4991 4991 4991 4
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92NG003.2 90CF056.1 92NG003.2 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	-C-C	4871 4849 4834 4868 4854 4868 4831 48459 4822 PR start 4890 4901 4901 4912 4914 4914 4914 4914 4914 4914 491

Fig. 13-14

	\mathbf{m}	5010
93BR020.1	TTTTAGAGGAGCTTAAGAATGAAGCTGTTAGACATTTTCCTAGGCCATGGCTCCATAGCT	5051
92NG083.2	-GA	5029
90CF056.1	AGTCAA-	5014
92RW009.6		
92NG003.1	-GAATG-A-	5036
93BR029.4	AG	5034
94CY032.3	GACGC	5048
96ZM651.8	CACCAA	5011
96ZM751.3	AAAA	5021
94CY017.41	-GACACAGC	5039
94IN476.104	CACC-GCAT-AT	5002
		5070
93BR020.1	TAGGACAACATATCTATAACACCTATGGGGATACTTGGGAAGGAGTTGAAGCAATCATAA	5070
92NG083.2	CA	5111
90CF056.1	GTT-A	5089
92RW009.6	AGGA	5074
92NG003.1	TTA	5096
93BR029.4	CGCAT	5094
94CY032.3	GTACTA	5108
96ZM651.8		5071
96ZM751.3	ACGGTC-A	5081
94CY017.41		5099
94IN476.104		5062
93BR020.1	GGATATTGCAACAACTACTGTTTATCCATTTCAGAATTGGGTGCCGTCATAGCAGAATAG	5130
92NG083.2	-AC-AAA	5171
90CF056.1	-A-CGCAAAA	5149
92RW009.6	-ATCGG	5134
92NG003.1	-AT-AA	5156
93BR029.4	-ATCGTTAT-AA	5154
94CY032.3	-ATTT	5168
96ZM651.8	-ACAGC	5131
96ZM751.3	-ACAAAA	5141
94CY017.41	-ATATCAAGG	5159
94IN476.104	-A-C-CAG <u>-</u>	5122
	TAT 1st exon start VPR end	
93BR020.1	GCATTACTCGACAGAGAGAG.TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5186
93BR020.1 92NG083.2	GCATTACTCGACAGAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5186 5227
	GCATTACTCGACAGAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205
92NG083.2	GCATTACTCGACAGAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227
92NG083.2 90CF056.1	GCATTACTCGACAGAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205
92NG083.2 90CF056.1 92RW009.6	GCATTACTCGACAGAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205 5190
92NG083.2 90CF056.1 92RW009.6 92NG003.1	GCATTACTCGACAGAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205 5190 5212
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	GCATTACTCGACAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	GCATTACTCGACAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GCATTACTCGACAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GCATTACTCGACAGAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GCATTACTCGACAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GCATTACTCGACAGAGAGAGAG.TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215 5178
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215 5178
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	GCAT TACTCGACAGAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215 5178
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5102 5210 5228 5187 5215 5178 5246 5287 5265
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215 5178 5246 5287 5265 5250
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215 5178 5246 5287 5265 5272 5270
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5102 5210 5228 5187 5215 5178 5246 5287 5265 5250 5272 5270 5288
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.1 93BR029.4 94CY032.3 96ZM651.8	GCAT TACTCGACAGAGAGAGG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5100 5212 5210 5228 5187 5197 5215 5178 5246 5265 5270 5272 5272 5278 5288 5247
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	GCAT TACTCGACAGAGAGAG. TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215 5178 5246 5287 5250 5272 5270 5272 5270 5247
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215 5178 5246 5287 5250 5272 5270 5288 5272 5275
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5102 5210 5228 5187 5215 5178 5246 5287 5265 5270 5270 5288 5247 5257 5257 5238
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5102 5210 5228 5187 5215 5178 5246 5287 5265 5270 5270 5288 5247 5257 5257 5238
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	GCAT TACTCGACAGAGAGAG. TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5190 5210 5228 5187 5197 5215 5178 5246 5287 5250 5272 5270 5288 5247 5257 5275 5275 5338
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5190 5210 5218 5187 5197 5215 5178 5246 5287 5265 5270 5272 5270 5247 5257 5275 5275 5238 start 5306 5347
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215 5178 5246 5287 5250 5272 5270 5288 5277 5257 5275 5238 start 5306 5347 5325
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94CY017.41 94IN476.104	GCAT TACTCGACAGAGAAGAG . TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5102 5210 5228 5187 5178 5215 5178 5246 5265 5270 5272 5270 5288 5247 5257 5227 5238 start 5306 53325 5310
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG031.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	GCAT TACTCGACAGAGAAGAG . TAAGAAÀTGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5102 5212 5210 5228 5187 5197 5215 5178 5246 5265 5270 5272 5270 5278 5247 5257 5275 5275 5275 5275 5275 5275
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	GCAT . TACTCGACAGAGAGAG . TAAGAAATGGAACTAGATAGATCCTAALTTAGATCC	5227 5205 5190 5212 5210 5228 5187 5197 5215 5178 5246 5287 5250 5272 5275 5275 5275 5275 5338 start 5306 5347 5325 5332 5330
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2	GCAT TACTCGACAGAGAGAG . TAAGAAATGGAACTAGATAGATCCTAACTTAGATCC	5227 5205 5190 5210 5218 5187 5197 5178 5246 5287 5287 52270 5287 5275 5270 5247 5275 5238 5447 5257 5238 5347 5338 5342 5332 5332 5332 5332 53348
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1	GCAT TACTCGACAGAGAGAGAG. TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5102 5210 5218 5187 5215 5178 5246 5287 5265 5272 5270 5288 5247 5257 52275 5238 5247 52275 5238 5330 5332 53330 53348 5307
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1	GCAT TACTCGACAGAGAGAGAG. TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5102 5210 5228 5187 5197 5215 5178 52467 5265 5272 5272 5273 5288 5247 5257 52238 5347 5325 5330 5332 5330 53348 5337 5317
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8	GCAT TACTCGACAGAGAGAGAG. TAAGAAATGGAACTAGTAGATCCTAACTTAGATCC	5227 5205 5102 5210 5218 5187 5215 5178 5246 5287 5265 5272 5270 5288 5247 5257 52275 5238 5247 52275 5238 5330 5332 53330 53348 5307

Fig. 13-15

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93BR020.1	GAAGCGGAGACAGCGACCAAGAACTCCTCAAAGCAGTCAGATACATCAAGATTTTGTACC	5366
92NG083.2		
		5407
90CF056.1	CACACGCTTTGAGATAC-AT-	5385
92RW009.6		5370
92NG003.1	GCG	5392
93BR029.4		
	CC	5390
94CY032.3	ATG-GTTGCAGGCACA	5408
96ZM651.8	CGGACCC-AT-	5367
96ZM751.3		
	A CCA-1-	5377
94CY017.41	ACCCGAGCTCA-AGACACC-A	5395
94IN476.104	GCCGCGGATACAT-	5358
TAT/REV 1st ex		
	AAAGCAGTAAGTATTGTTAAGCATATGTAATGTCAAATTTG	- 400
93BR020.1	AAAGCAGTAAGTATTGTTAT	5408
92NG083.2	G-AAC-ATT-ATG-AGGCCA	5452
90CF056.1	AT-TAA	5420
92RW009.6	G-AAAACT	
		5415
92NG003.1	GG-AAGTTTG CA-TCCA	5437
93BR029.4		5435
94CY032.3		5447
96ZM651.8		5414
96ZM751.3		5434
94CY017.41		5440
94IN476.104		
941N4/0.104		5405
	·	
93BR020.1	TAGCAATAGGCATAGCAGCATTAATAGTAGCACTAATAATAACAATAGTTGTGGGACTA	5468
92NG083.2	A-ATATCTG-C	5502
90CF056.1	GTAGCGCGAT-TCG-CGAC-	5477
92RW009.6	A-ATCTAT-CATC-GCGTGT	5475
92NG003.1	A-AT-GCT-CAG-CG-CGCGC-G-C	5493
93BR029.4	TG	
		5495
94CY032.3	A-ATCTGG-CATG-C-GGTGTAT	5507
96ZM651.8	ATAG-GAGGC-CGC-CG	5474
96ZM751.3	ATAGAGG	5494
94CY017.41	AT-T-G-CAAAA	5500
94IN476.104	ATAG-TAGGC-	5465
9388020 1	TACCATATATACAATATAAAAAAAAAAAAAAAAAAAAA	5500
93BR020.1	TAGCATATATAGAATATAAGAAACTGGTAAGGCAAAGAAAAATAAAT	5528
93BR020.1 92NG083.2	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	5528 5562
92NG083.2 90CF056.1	TTGAA-AAGAAG-AG-A-ACT-G-T- TATAGG-CCAT-G	5562 5537
92NG083.2 90CF056.1 92RW009.6	TT	5562 5537 5535
92NG083.2 90CF056.1 92RW009.6 92NG003.1	TT	5562 5537 5535 5541
92NG083.2 90CF056.1 92RW009.6	T-TGAAAGAAG-AG-A-ACT-G-TT	5562 5537 5535
92NG083.2 90CF056.1 92RW009.6 92NG003.1	T-TGAAAGAAG-AG-A-ACT-G-TT	5562 5537 5535 5541 5555
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	T-T	5562 5537 5535 5541 5555 5567
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TT	5562 5537 5535 5541 5555 5567 5534
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	T-T	5562 5537 5535 5541 5555 5567 5534 5554
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	T-T	5562 5537 5535 5541 5555 5567 5534
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	T-T	5562 5537 5535 5541 5555 5567 5534 5554 5560
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TT	5562 5537 5535 5541 5555 5567 5534 5554
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TT	5562 5537 5535 5541 5555 5567 5534 5554 5560 5525
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	TT	5562 5537 5535 5541 5555 5567 5534 5554 5556 5525
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	TT	5562 5537 5535 5541 5555 5567 5534 5560 5525
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	TT	5562 5537 5535 5541 5555 5567 5534 5554 5556 5525
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	TT	5562 5537 5554 5555 5567 5534 55560 5525 5688 5622 5597
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	TT	5562 5537 5535 5541 5555 5567 5534 5556 5525 5688 56297 5595
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	TT	5562 5537 5535 5541 5555 5567 5534 5554 5552 5588 5622 5588 5622 5597 5595
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	TT	5562 5537 5535 5541 5556 5567 5534 5554 5560 5525 588 5622 5597 5501 5615
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	TT	5562 5537 5535 5541 5556 5567 5534 5554 5560 5525 588 5622 5597 5501 5615
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	TT	5562 5537 5534 5555 5567 5534 5560 5525 5688 5697 55995 56015 5627
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TT	5562 5537 5535 5555 5567 5534 55560 5525 5688 56297 5595 56015 5627 5594
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TT	5562 5537 5535 5541 55567 55567 55525 5622 5595 5601 5615 5694 5614
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TT	5562 5537 5535 5555 5567 5534 55560 5525 5688 56297 5595 56015 5627 5594
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TT	5562 5537 5535 5541 55567 55567 55525 5622 5595 5601 5615 5694 5614
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TT	5562 5537 5535 5541 5555 5567 5534 5556 5525 5622 5599 5601 5627 5594 56294 5620
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TT	5562 5537 5555 5555 5567 55534 55560 5525 5625 5627 5595 5615 5627 5594 5620 5585
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR021.3 94CY017.41 94IN476.104 93BR020.1	TT	5562 5537 55535 555567 55564 55525 5682 5595 5601 56615 5594 5620 5585 5648
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	TT	5562 5537 55535 55557 55567 55560 55525 56227 55601 56615 56694 5620 5585 56482
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	TT	5562 5537 55535 555567 55564 55525 5682 5595 5601 56615 5594 5620 5585 5648
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	-T-T	5562 5537 5535 5555 5567 5560 5552 5622 5562 5622 5599 5601 5627 5629 5629 5629 5629 5629 5629 5629 5629
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6	TT	5537 5534 555567 555567 5555634 555525 565995 56615 566297 556615 566857 566857 566857
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	TT	5537 5534 555567 55567 55564 55560 5525 5625 5627 55601 5627 556127 55614 5682 5682 5682 5682 5682 5682 5682 5682
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	-T-T	5537 55331 555567 555634 555525 55625 56625 56627 56627 56629 56627 56629 56657 566657 566675
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	TT	5537 5534 555567 55567 55564 55560 5525 5625 5627 55601 5627 556127 55614 5682 5682 5682 5682 5682 5682 5682 5682
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	-T-T	5537 55337 555341 555567 555560 55550 56629 5662
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1	- T - T - GA - A - AAG - AA - G - A - G - A - G - A - CT - G - T - T - G - A - T - C - A - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - G - C - T - G - G - C - C - G - C - T - G - G - C - C - G - C - T - G - G - C - C - G - C - T - G - C - T - G - G - C - C - G - C - T - AT - G - G - G - C - C - AT - G - G - G - C - AT - G - G - G - C - AT - G - G - G - G - G - G - C - AT - G - G - G - G - G - G - G - G - G -	5537 55331 555567 555567 555555 555560 5555995 566299 5662994 566551 566556 566555 566555 566555 566787
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1	TT	5537 55331 555567 5555634 5555555 5555555 555560 55560 55560 55560 55560 55560 55560 55560 55560 55560 55560 55560 55560 55560 55560 5600 560
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8	- T - T - GA - A - AAG - AA - G - A - G - A - G - A - CT - G - T - T - G - A - T - C - A - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - AT - G - G - C - C - G - C - T - G - G - C - C - G - C - T - G - G - C - C - G - C - T - G - G - C - C - G - C - T - G - C - T - G - G - C - C - G - C - T - AT - G - G - G - C - C - AT - G - G - G - C - AT - G - G - G - C - AT - G - G - G - G - G - G - C - AT - G - G - G - G - G - G - G - G - G -	5537 55331 555567 555567 555555 555560 5555995 566299 5662994 566551 566556 566555 566555 566555 566787

Fig. 13-16

		5700
93BR020.1	GAAAACTTATGGGTTACAGTCTATTATGGGGTACCTGTGTGGAAAGAAGCAACCACTACT	5708
92NG083.2	TG	5742
90CF056.1	CGA	5717
92RW009.6	A-CGCCCCC	5715
92NG003.1	A-TGCGATCC	5721
93BR029.4	A-CGC	5732
94CY032.3	A-CGCTGCGAGCC	5747
96ZM651.8	-GGGAA	5714
96ZM751.3	-GGAGAA	5734
94CY017.41	TGCACATGATC-TC	5737
94IN476.104	-GGAA	5705
J41N470.101		
93BR020.1	CTATTCTGTGCATCAGATGCTAAATCATATGAAAAAGAGGCACATAATGTCTGGGCTACA	5768
92NG083.2		5802
		5777
90CF056.1	TT	5775
92RW009.6	T	5781
92NG003.1	TAA	5792
93BR029.4	TAGA-TA	5807
94CY032.3	A	5774
96ZM651.8		5794
96ZM751.3	TTTTTTT	5797
94CY017.41	T-CA-TGAC	5765
94IN476.104	TAA	5765
		r000
93BR020.1	CATGCTTGTGTACCCACAGATCCCAATCCACAAGAAGTAGTTCTGGAAAATGTAACAGAA	5828
92NG083.2	C	5862
90CF056.1	GA-GCAG	5837
92RW009.6	C	5835
92NG003.1	C	5841
93BR029.4	C	5852
94CY032.3	CATG	5867
96ZM651.8	CGCCATG	5834
96ZM751.3	C	5854
94CY017.41	AAAC	5857
94IN476.104	CC	5825
24 IN4 / O . I U 4	5 5	
0200000 1	ACCUTURA AUTATICUCICA A AATA A CATGITAGA A CA A ATGICATACAGATATAATCAGTTTA	5888
93BR020.1	AGGTTTAATATGTGGGAAAATAACATGGTAGAACAAATGCATACAGATATAATCAGTTTA	
92NG083.2	-ATGA-G	5922
92NG083.2 90CF056.1	-ATCA-G	5922 589 7
92NG083.2 90CF056.1 92RW009.6	-ATCA-G	5922 5897 5895
92NG083.2 90CF056.1 92RW009.6 92NG003.1	-ATGGGAG	5922 5897 5895 5901
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-ATCA-G	5922 5897 5895 5901 5912
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-ATCA-GG-GAG	5922 5897 5895 5901 5912 5927
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-ATCA-GG-GAG	5922 5897 5895 5901 5912 5927 5894
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-AT C A - G G G G A G	5922 5897 5895 5901 5912 5927 5894 5914
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-AT C A - G G - G - G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-AT C A - G G G G A G	5922 5897 5895 5901 5912 5927 5894 5914
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-AT C A - G G - G - G - G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-AT C A - G G G - G - G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-AT C A - G G G - G - G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-AT C A - G G - G - G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-AT C A - G G - G - G - G - G -	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	-AT C A - G G - G - G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	-AT C A - G G - G - G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	-AT C A - G G - G - G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3	-AT C A - G G - G - G - G C	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961 5972
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-AT C A - G G - G - G - G C	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961 5972 5987
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-AT C A - G G - G - G - G C C	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5957 5955 5961 5972 5972 5954
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41	-AT C A - G G - G - G - G C C	5922 5897 5895 5901 5912 5927 5894 5917 5885 5948 5982 5957 5955 5961 5972 5954 5974
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-AT C A - G G - G - G - G - G - C C C - G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5957 5955 5961 5972 5987 5974 5974 5975
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-AT C A - G G - G - G - G - G - C C G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961 5972 5987 5954 5974 5974
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-AT C A - G G - G - G - G - G - C C G - G	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5957 5955 5961 5972 5987 5974 5974 5974
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	-AT C A - G G - G - G - G C C C G - G	5922 5897 5895 5901 5912 5927 5894 5917 5885 5948 5957 5955 5961 5972 5974 5974 5977 5945
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	-AT C A - G G - G - G - G C C C G - G	5922 5897 5897 5901 5912 5927 5814 5917 5885 5948 5982 5957 5955 5961 5972 5974 5974 5977 5945
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94CY017.41 94IN476.104	-AT C A - G G - G - G - G C C G - G	5922 5897 5895 5901 5912 5927 5884 5914 5917 5885 5948 5982 5957 5955 5961 5972 5987 5974 5974 5974 5974 5974 5974 5974 597
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	-AT C A - G G - G - G - G - G C C	5922 5897 5897 5901 5912 5927 5894 5914 5917 5885 5948 5957 5955 5961 5972 5974 5974 5974 5974 5974 5991 6021
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2	-AT C A - G G - G - G - G - G C C	5922 5897 5895 5901 5912 5927 5894 5917 5885 5948 5985 5957 5955 5961 5972 5974 5974 5977 5945 5993 6021 6008
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-AT C A - G G - G - G - G - C C - G - G	5922 5897 5897 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961 5972 5974 5974 5977 5945 5991 6001 6008 6017
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	-AT C A - G - G - G - G - G - G - C	5922 5897 5897 5912 5927 5914 5917 5885 5948 5957 5955 5961 5972 5972 5974 5974 5974 5974 5974 5974 5974 5974
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 94CY017.41 94SR029.4 94CY032.3 96ZM09.6 92NG003.1 93BR029.4 94CY032.3 96ZM09.4 94CY032.3 96ZM651.8 96ZM751.3	-AT C A - G G - G - G - C	5922 5897 5897 5912 5927 5927 5894 5914 5917 5885 5948 5957 5955 5961 5972 5974 5974 5974 5974 5974 5974 5974 5974
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	-AT	5922 5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5957 5955 5961 5972 5974 5974 5977 5945 5974 5977 5945 6021 6008 6001 60014

Fig. 13-17

0200000	ACTCTGAAGGAAGATCCAGAGGCAATACAAAACTGTTCTTTCAATACAACCACAGAA	6053
93BR020.1	$C \ \lambda C - \lambda \lambda - C \lambda - \Delta C \lambda \lambda \Delta T - \lambda C G - T G$	6075
92NG083.2	-G-AGCGAGGGACTACTCGTT-	6047
90CF056.1	-G-AGCGAGGG-ACTACTACT	6045
92RW009.6	GGATG-CATGA-AGGAATACTGTG	6081
92NG003.1	GTGTCATAGACAAAC-ACTACTT	
93BR029.4	CTGAA-G-AGCCAGGG-CAATTGTGTG	6062
94CY032.3	A = C = G = C =	6071
	λ	6068
96ZM651.8	-ACTATTA-TAA-TCATGAGTCT	6079
96ZM751.3	CAGAGCCCCATTAGAAATACAAT-	6073
94CY017.41	CAGAGCCCCATTAGAAAT	6020
94IN476.104	TACTA-TAC-GATTATATCTG	0020
		6113
93BR020.1	ATAAGAGATAAGCAGCTGAAAGTACATGCACTTTTTTATAAACTTGATATAGTACAAATC	6113
92NG083.2	GCC CC>AA-GA-T-CGCG-GG-T	6135
	CGGG	6107
90CF056.1	TGT	6105
92RW0091.6	A-AAACA-TGGG-GC	6141
92NG003.1	G	6122
93BR029.4	GGG	6131
94CY032.3	GAAAA-TGCG-A	
96ZM651.8	CATC-C-T	6128
96ZM751.3	T	6139
94CY017.41	CGGGGGG	6133
- '	CA-A-GCAGTGC-C-A	6080
94IN476.104	11111111111111111111111111111111111111	
	л д т д д д д д д д д д д д д д д д д д	6136
93BR020.1	AACAAGGATGACAATAGAACATA	6158
92NG083.2	-GTT-GGA-T	
90CF056.1	G- TCAA	6127
92RW009.6	T-GCAAGTAATAACAGTAGTCATCAG	6140
	GGTCTCA-AT-AC	6170
92NG003.1	-GAGT-GCGA	6163
93BR029.4	-GA-TAGIAGCAAIGAIGATAAIATACCAATAATACT-CAGA-GAG	6184
94CY032.3	TGCTAG.AGTGCCAATTAATGGTAGTAATAGGAATAATAGT-CAGA-GAG-	6172
96 ZM 651.8	TGACGACTCTGAGACTGGCAACT	
96ZM751.3	TCCTGA	6159
94CY017.41	G-TGAAACTG-AAA-GAATA.CATCAGGTAGTCTCTG	6177
94 TN476 104	TGAA-GAACAGCTCTAGTAACTTGAG	6118
94IN476.104	TGAA-GAACAGCTCTAGTAACTTGAG	6118
94IN476.104	TGAA-GAACAGCTCTAGTAACTTGAG	6118 6196
94IN476.104 93BR020.1	TGAA-GAACAGCTCTAGTAACTTGAG	6196
94IN476.104	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA	6196 6218
94IN476.104 93BR020.1	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA T-GCATT	6196 6218 6187
94IN476.104 93BR020.1 92NG083.2 90CF056.1	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATT TGCA	6196 6218 6187 6200
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCAT	6196 6218 6187 6200 6230
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TGAA-GAACAGCTCTAGTAACTTGAG CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCAT	6196 6218 6187 6200 6230 6223
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	TGAA-GAACAGCTCTAGTAACTTGAG CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCAT	6196 6218 6187 6200 6230
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	TGAA-GAACAGCTCTAGTAACTTGAG CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCAT	6196 6218 6187 6200 6230 6223
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TGAA-GAACAGCTCTAGTAACTTGAG CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TG	6196 6218 6187 6200 6230 6223 6244 6232
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA T-GCA-TACC-TT T-GA-AGA-AC	6196 6218 6187 6200 6230 6223 6244 6232 6219
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA T-GCATAACC-TT T-GTA-AGAACT T-T-GTA-A	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA T-GCA-TACC-TT T-GA-AGA-AC	6196 6218 6187 6200 6230 6223 6244 6232 6219
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCAT	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	CAGACTAATAAATTGTGATGCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATACCT TGAAGAACT TGAACAACTT TTTAAGAACTT TTTAAGAATT TTTAGAATT TTTAGAATATT TTTA	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA T-GCA-TACC-TT T-GTA-A-GGA	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178 6256 6278 6247 6260
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATACCT TGAAGAACT TGAAC	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178 6256 6278 6247 6260 6290
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178 6256 6278 6247 6260 6290 6283
94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6283 6304
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATACC-T TGAAGTAA	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6283 6304
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292 6279 6297
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292 6279
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 93RW009.6 93RW009.6 94RW009.6 94RW0	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6292 6279 6279 6297 6297
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292 6279 6297 6297
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 93RW009.6 93RW009.6 94RW009.6 94RW0	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATA	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292 6297 6238
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATACATT TGAAGTCT	6196 6218 6187 6200 6223 6244 6232 6219 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292 6279 6297 6238
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATAAT TGAAGT	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292 6279 6238
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATACGC-TT TGAAGAAC	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6292 6279 6297 6238 6316 6338 6307 6320 6350
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATAAT TGAAGTCAT TGTAAGAA	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292 6279 6238
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG003.1 93BR020.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATAAT TGAAGTCAT TGTAAGAA	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6292 6279 6297 6238 6316 6338 6307 6320 6350
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATAGC-TT TGA-AGTA-AGC-TT TGTA-AGA-AGTT TGA-ACA-ACTT TGA-ACA-ACTT T-TGTA-AGC-AACCTT TTTA-AGC-AACCTT TTTA-AGC-AACTT TTTA-ACAAAATT TTTA-A	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292 6279 6238 6316 6338 6307 6320 6350 6350 6354
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 94CY032.3 96ZM651.8	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATAAT TGAAGTCGC-TT TGTAAGAAGTT TGAAGAAGTT TGAAAA-	6196 6218 6187 6200 6230 6223 6244 6232 6219 6237 6178 6256 6278 6247 6260 6290 6290 6292 6279 6297 6297 6297 6297 6297 6316 6316 6316 6316 6316 6316 6316 631
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATAATT TGA-AGTCGC-TT TGTA-AGGC-TT TGTA-AGGT	6196 6218 6187 6200 6230 6223 6244 6237 6178 6256 6278 6247 6260 6290 6283 6304 6292 6279 6238 6304 6307 6320 6350 6350 6364 6352 6339
94 IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA TGCATAAT TGAAGTCGC-TT TGTAAGAAGTT TGAAGAAGTT TGAAAA-	6196 6218 6187 6200 6223 6244 6237 6178 6256 6277 6260 6290 6283 6304 6292 6297 6238 6316 6338 6307 6350 6350

Fig. 13-18

	TAAACCAGTGGTATCCACTCAATTGTTGTTAAATGGCAGCCTAGCAGAAGGAGAGAT	6373
93BR020.1	TAAACCAGTGGTATCCACTCAATTGTTATTGTTATTGCCACCTTTTGTTATTGTTATTGCCACCTCAATTGTTATTGTTATTGCCACCTTTTTTTT	6395
92NG083.2	GTTAT	
90CF056.1	GAAAAA-C	6364
	CGAAGCC	6377
92RW009.6	TTAAA	6407
92NG003.1	AAAC-ACII-II-II-II-II-II-II-II-II-II-II-I	
93BR029.4	AAT	6400
94CY032.3	CAAG-	6421
	G	6409
96ZM651.8	G	6396
96ZM751.3	GAACTTT	
94CY017.41		6417
	GAACACAA	6355
94IN476.104	G	
		6422
93BR020.1	AGTAATCAGATCTCAAAATATCTCAGATAATGCAAAAACCATAATAGTGCACCTTAATGA	6433
	-AGTGA-	6455
92NG083.2	-AGI	6424
90CF056.1	CATAA	
92RW009.6	-ATAA-CC	6437
	AGAAGAGAG	6467
92NG003.1	-AT	6460
93BR029.4	-A	6481
94CY032.3	AAAAAGGCAA-	
96ZM651.8	- A T	6469
	-ATAGACTAAT	6456
96ZM751.3	-AA	6477
94CY017.41	-A-GTTAA-CCATGTC-A-	
94IN476.104	-ACTAACATAT	6415
941N4/0.104	n of	
		6493
93BR020.1	ATCTGTACAGATTAATTGTACAAGACCCAACAACAATACAAGAAAAAGAATATCTTTAGG	
92NG083.2	TAG-AG-ATCTTTTC-AA-C	6515
	-C-AA-CCACT	6484
90CF056.1	GATGCA-A	6497
92RW009.6	GAAT-CT-CT-CT-C	
92NG003.1	-AAGGA	6527
93BR029.4	G-CC-AA	6520
	GGTGCA-A	6541
94CY032.3	GGA-A	6529
96ZM651.8	AG-AGTGGTTCTAGAA	6516
96ZM751.3	G_A GTG	
94CY017.41	CCTACGCT	6537
	CAA-AGTATCTAGGA	6475
94IN476.104	CAA-AGIA	
, , , , , , , , , , , , , , , , , , , ,		
, , , , , , , , , , , , , , , , , , , ,		6553
	accaggacgactatttatacaacaggagaaataataggagacatcagaaaggcacattg	6553
93BR020.1	accaggacgactatttatacaacaggagaaataataggagacatcagaaaggcacattg	6553 6575
93BR020.1 92NG083.2	ACCAGGACGAGTATTTTATACAACAGGAGAATAATAGGAGACATCAGAAAGGCACATTG	6575
93BR020.1	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544
93BR020.1 92NG083.2	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTGACGCGTTTAC-A	6575 6544 6557
93BR020.1 92NG083.2 90CF056.1 92RW009.6	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTGACGCGTTCCTAC-A G	6575 6544 6557 6570
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTGACGCGTTCCTAC-A G	6575 6544 6557
93BR020.1 92NG083.2 90CF056.1 92RW009.6	ACCAGGACGAGTATTTTATACAACAGGAGAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTGACGCGTTTAC-A GACGCGTCGC-A	6575 6544 6557 6570 6580 6601 6589 6576 6594
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTGACGCGTTTAC-A GACGCGTCGC-A	6575 6544 6557 6570 6580 6601 6589 6576
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 94CY017.41	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576 6594 6535
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576 6594
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576 6594 6535
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576 6594 6535
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576 6594 6535
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576 6594 6535
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6580 6601 6589 6576 6594 6535 6613 6604 6617
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576 6594 6535 6613 6635 6617 6614
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576 6594 6535 6613 6635 6617 6614 6640
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576 6594 6535 6613 6635 6617 6614
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6576 6594 6535 6613 6635 6617 6614 6640
93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6580 6601 6589 6576 6594 6535 6613 6614 6617 6614 6640 6661
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 6589 6576 6535 6613 6635 6614 6640 6640 6649 6636
93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.3 94CY032.3 96ZM651.8 96ZM751.3	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6574 6535 6613 6635 6614 6640 66649 6636
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM751.3 94CY017.41	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 6589 6576 6535 6613 6635 6614 6640 6640 6649 6636
93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.3 94CY032.3 96ZM651.8 96ZM751.3	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6580 6601 6589 6574 6535 6613 6635 6614 6640 66649 6636
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 6589 65794 6535 6613 66617 66614 66649 66595
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM751.3 94CY017.41	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 6589 6576 6535 6613 6617 6614 6640 6649 6649 6654 6595
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 6589 6576 6535 6613 66354 6614 6640 66649 6654 66595
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 6589 6576 6535 6613 6617 6614 6640 6649 6649 6654 6595
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 94IN476.104	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 6557 6570 6601 6589 6576 6594 6535 6613 6614 6640 6664 66649 66649 6654 66595
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 65896 6594 6535 6617 6614 66617 6640 66619 66595 6670 66677
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 94IN476.104	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 6589 6574 6535 6613 6614 6640 6649 66595 6670 66677 6668
93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 6589 6576 6535 6613 6614 6640 6640 66649 6654 6595 6692 66678 6668
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 6589 6574 6535 6613 6614 6640 6649 66595 6670 66677 6668
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM603.1 92RW009.6 92NG003.1 92RW009.6 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6601 6589 6576 6535 6613 6635 6614 6640 66649 6654 66595 6672 6667 66687 66687
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6681 6589 6594 6535 66135 6614 66614 66649 66654 66595 6677 6668 66697 6668 66918 6706
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM603.1 92RW009.6 92NG003.1 92RW009.6 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6586 6574 6535 6614 66614 66614 66649 66659 6667 6667 66693 66693
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 94CY032.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 65780 65786 6574 6535 6617 6614 6640 6649 6654 66595 66697 66697 66697 66697 66697 66697 66697 66697
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 94CY032.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6575 6544 65570 6580 6586 6574 6535 6614 66614 66614 66649 66659 6667 6667 66693 66693

Fig. 13-19

93BR020.1	TACAAGGCATAATTTTAATTGTATGGGAGAATTTTTCTACTGTAATACAGATGAACTGTT	6730
	CAGAGATCTCA-G	6752
92NG083.2	GCAGATCTCA-GG	6721
90CF056.1		6737
92RW009.6	CAG	6728
92NG003.1	CAGATCA-G-T	
93BR029.4	TGA	6757
94CY032.3	CAGCAATCACACC	6778
96ZM651.8	CACC	6766
	CAGCTCTCAA	6753
96ZM751.3	CA-TGGCATCACA-GC	6771
94CY017.41	-GTCAGC	6712
94IN476.104	-GTCAGC	0,12
		6767
93BR020.1	TAATGACACAAAATTCAATGACACAGGATTCAATGGC	6767
92NG083.2	A-T-AT-TTAGTAAT-TA-T-AT-AG	6783
90CF056.1	AGT-GTTGGGAAATGCACT-ATTACACATCAAATGACACAAAGGGAAACGA	6778
	AGCTGGAGTAAA-GAA-TGGCACC-GGC-GTCAAATGGCACAGAATTA	6792
92RW009.6	ATGG-GGGAATGAC	6755
92NG003.1	ATGG-GGGAATGAC	6779
93BR029.4	GT-GA-AATGGC	
94CY032.3	AGTC-CA-GCAAGTAACA-T-CAA-TACAGATTCTACAAATTC	6835
96ZM651.8	G-ATA-ATT-TACAGAAA-TATGGT-CAC	6804
96ZM751.3	GTGTTTAATGGT-CAATTCTAATGA-AAGTAATTCG	6802
	GTGTGG-GGAACGTGT-GAA-GGGCC-TACACACCTAATAACAC	6828
94CY017.41	C-GTT-CAATGGT-CAGACATGC-TACATACAAATTCCAGTTCAGA	6772
94IN476.104	C-GTT-CAATGGT-CAGACATGC-TACATACAAATTCCAGTTCAGA	
		c000
93BR020.1	ACTATCACTCTCCCATGTCGAATAAAACAAATTGTAAACATGTGGCAGGAAGT	6820
92NG083.2	AAA	6836
	AACTAGCA	6832
90CF056.1	AA	6845
92RW009.6		6806
92NG003.1		6832
93BR029.4		
94CY032.3	a	6889
96ZM651.8	-CACAGATT	6856
	ACTGT-ACAAC	6855
96ZM751.3	CAATGGA-GA-TCCAAAG	6888
94CY017.41	CAATGGA-GA-TCCA	6826
94IN476.104	CTCTGTCAGGTAA-G	0020
		6000
93BR020.1	GGGACGAGCAATGTATGCCAATCCCATTGCAGGAAACATTACCTGTAACTCAAATATTAC	6880
92NG083.2	àACT	6896
90CF056.1	ATGGTACCATGGTA	6892
	AA	6905
92RW009.6	ACCCG-TAGAC	
92NG003.1	AAG	6866
	~~ C	6866 6892
93BR029.4	GGGC	6892
93BR029.4 94CY032.3	G	6892 6949
94CY032.3	G	6892 6949 6916
94CY032.3 96ZM651.8	G	6892 6949
94CY032.3 96ZM651.8 96ZM751.3	G	6892 6949 6916
94CY032.3 96ZM651.8 96ZM751.3	G	6892 6949 6916 6915 6948
94CY032.3 96ZM651.8 96ZM751.3	G	6892 6949 6916 6915
94CY032.3 96ZM651.8 96ZM751.3	G	6892 6949 6916 6915 6948 6886
94CY032.3 96ZM651.8 96ZM751.3	G	6892 6949 6916 6915 6948 6886
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1	G	6892 6949 6916 6915 6948 6886 6925 6947
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	G	6892 6949 6916 6915 6948 6886 6925 6947 6940
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	G	6892 6949 6916 6915 6948 6886 6925 6947
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	G	6892 6949 6916 6915 6948 6886 6925 6947 6940
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	G	6892 6949 6915 6915 6948 6886 6925 6947 6940 6953 6914
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	G	6892 6949 6915 6948 6886 6925 6947 6940 6953 6914
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	G	6892 6949 6916 6915 6948 6886 6925 6947 6940 6953 6914 6991
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	G	6892 6949 6916 6915 6948 6886 6925 6947 6953 6914 6940 6991
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 	G	6892 6949 6916 6915 6948 6886 6925 6947 6953 6914 6976 6976
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	G	6892 6949 6916 6915 6948 6886 6925 6947 6953 6914 6940 6991
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92NW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	G	6892 6949 6916 6915 6948 6886 6925 6947 6953 6914 6976 6976
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	G	6892 6949 6915 6948 6886 6925 6947 6940 6953 6974 6976 6993
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	G-A	6892 6949 6916 6915 6948 6886 6925 6940 6953 6940 6991 6996 6993 6934
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92NW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	G	6892 6949 6916 6915 6886 6925 6947 6953 6914 6966 6993 6993 6985
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	G-A	6892 6949 6915 6915 6886 6925 6947 6953 6914 6976 6993 6993 6985 7007
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2	G-A	6892 6949 6915 6948 6886 6925 6947 6940 6953 6914 6966 6993 6934 6985 7000
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1	G-A	6892 6949 6916 6915 6948 6886 6925 6940 6953 6914 6991 6996 69934 6985 7000 7013
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 	G-A	6892 6949 6915 6948 6886 6925 6947 6940 6953 6914 6966 6993 6934 6985 7000
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1	G-A	6892 6949 6916 6915 6948 6886 6925 6940 6953 6914 6991 6996 69934 6985 7000 7013
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	G-A	6892 6949 6916 6915 6848 6886 6925 6940 6953 6914 6966 6993 6976 7000 7013 6974 7000
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	G-A	6892 6949 6916 6915 6948 6886 6925 6947 6953 6914 6976 6993 6993 6985 7000 7013 6974 7000 7051
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	G-A	6892 6949 6916 6915 6948 6886 6925 6947 6940 6953 6914 6991 6966 6993 6985 7000 7013 6974 7000 7013
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2	G-A	6892 6949 6916 6915 6948 6886 6925 6940 6953 6940 6953 6991 6976 6996 6993 6985 7007 7013 6974 7000 7051 7036 7026
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	G-A	6892 6949 6916 6915 6948 6886 6925 6947 6940 6953 6914 6991 6966 6993 6985 7000 7013 6974 7000 7013
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	G-A	6892 6949 6916 6915 6948 6886 6925 6940 6953 6940 6953 6991 6976 6996 6993 6985 7007 7013 6974 7000 7051 7036 7026

Fig. 13-20

	TAAAGTAGTAGAAATTGAACCACTAGGAGTAGCACCCACC	7045
93BR020.1	TAAAGTAGTAGAAATTGAACCACTAGGAGTAGCACCCACC	7067
92NG083.2	AAAAAAGAG	7060
90CF056.1 92RW009.6	G	7073
92NG003.1	AAA	7034
93BR029.4		7060
94CY032.3	A-GGGGGGG	7111
96ZM651.8	GGAGGAG	7096
96ZM751.3	GA-GTTTCGGAG	7086
94CY017.41	ACAG	7113
94IN476.104	G	7054
		7105
93BR020.1	GAAGAGAAAAAAAGAAGAGCAGTGGGACTAGGAGCTCTGTTCCTTGGGTTCTTGGGAGCAGC	7105 7127
92NG083.2	-GAAA	7127
90CF056.1	-GA	7120
92RW009.6	-GAAAA	7094
92NG003.1	-GGAGAA	7120
93BR029.4	-CA-TAGCA	7171
94CY032.3	-GA-TA-TAAA	7156
96ZM651.8	-GAAAA	7146
96ZM751.3	-GATGG-C	7173
94CY017.41 94IN476.104	-G	7114
941N4/6.104	- Good Control of the	
93BR020.1	${\tt TGGAAGCACTATGGGCGCGCGTCAATAACGCTGACGGTACAGGCCAGACAATTATTGTC}$	7165
92NG083.2	AGT	7187
90CF056.1	AG	7180
92RW009.6	A	7193
92NG003.1	AT	7154
93BR029.4	ACAA	7180
94CY032.3	AA	7231
96ZM651.8	A	7216
96ZM751.3	ATT	7206
94CY017.41	A	7233
94IN476.104	A	7174
		7225
93BR020.1	TGGAATAGTGCAACAGCAGCAATCTGCTGAGGGCTATTGAAGCGCAACAGCATCTGTT	7247
92NG083.2	CAAAGG	
90CF056.1		
	7 m	7240 7253
92RW009.6	CAAAAAGTAA	7253
92RW009.6 92NG003.1	C	7253 7214
92RW009.6 92NG003.1 93BR029.4	C	7253 7214 7240
92RW009.6 92NG003.1 93BR029.4 94CY032.3		7253 7214 7240 7291
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		7253 7214 7240
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	CAAAAA	7253 7214 7240 7291 7276
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	CATAGTA CATT	7253 7214 7240 7291 7276 7266
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		7253 7214 7240 7291 7276 7266 7293
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		7253 7214 7240 7291 7276 7266 7293
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	CATAGTACATAGTAC	7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7336
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7351 7336 7326
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7336 7326 7353
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7351 7336 7326
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7336 7326 73294
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7326 7353 7294
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7353 7294 7345 7367
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7351 7374 7300 7351 7326 7353 7294 7345 7367 7360
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7353 7294 7345 7367
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7351 7376 7353 7274 7360 7353 7294
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7351 7336 7326 7353 7294 7367 7360 7373 7334
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7336 7326 7353 7294 7345 7367 7360
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7351 7336 7326 7353 7294 7360 7373 7334 7360 7411
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR029.1 94IN476.104 93BR020.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94CY032.3 96ZM651.8 96ZM751.3		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7351 7336 7326 7353 7294 7345 7360 7373 7334 7360 7373 7334 7360 7373 7334 7360 7411 7396
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR029.1 94IN476.104 93BR020.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94CY032.3 96ZM651.8 96ZM751.3		7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7351 7336 7326 7353 7294 7345 7360 7373 7334 7360 7411 7396 7386

Fig. 13-21

		2405
93BR020.1	TAATGTGCCCTGGAACTCTAGTTGGAGTAATAAATCTCTTGAGGAGATTTGGGGGAACAT	7405
92NG083.2	AAT	7427
90CF056.1	AGAGTACAC	7420
92RW009.6	GAAGCAAT	7433
92NG003.1	TAAT	7394
93BR029.4	-GAGAC	7420
94CY032.3	ATATAACT	7471
96ZM651.8	-GCATCATCATAAACATAT	7456
96ZM751.3	-GCAT	7446
94CY017.41	CACAC	7473
94IN476.104	-GC	7414
341N4/0.1U4	and I I	,
0200000 1	GACCTGGATGGAGTGGGAAAAAGAGGTTAGCAATTACTCAAAAGAAATATACAGGTTAAT	7465
93BR020.1		7487
92NG083.2	TC-AA	
90CF056.1	TA	7480
92RW009.6	AC-ATAAGACATTTC	7493
92NG003.1	AC-ACC	7454
93BR029.4		7480
94CY032.3	ACATTGC-	7531
96ZM651.8		7516
96ZM751.3	AGACT-GAAATAGACTGC-	7506
94CY017.41		7533
94IN476.104	CACCGC	7474
941N470.104		
0200000 1	TGAAGACTCGCAGAACCAGCAGGAAAAGAATGAACAAGAATTATTAGCATTGGACAAATG	7525
93BR020.1	TGAAGACTCGCAGAACCAGCAGGAAAAGAATGAACAAGAATTATTAGCATTGGACAAATG	7547
92NG083.2	G	
90CF056.1		7540
92RW009.6	C	7553
92NG003.1	A	7514
93BR029.4	G	7540
94CY032.3	AAGGGGGG	7591
96ZM651.8	G	7576
96ZM751.3	TA	7566
94CY017.41	AAA	7593
0.4 TNI 476 104		7534
94IN476.104	AA-T	7534
93BR020.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585
93BR020.1 92NG083.2	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 760.7
93BR020.1 92NG083.2 90CF056.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 760.7 7600
93BR020.1 92NG083.2	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATTA-TA	7585 760.7 7600 7613
93BR020.1 92NG083.2 90CF056.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 760.7 7600 7613 7574
93BR020.1 92NG083.2 90CF056.1 92RW009.6	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATTCTA-TTT	7585 7607 7600 7613 7574 7600
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 760.7 7600 7613 7574
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 7607 7600 7613 7574 7600
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 7607 7600 7613 7574 7600 7651
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636 7626
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7607 7613 7574 7600 7651 7636 7626 7653 7594
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 7607 7607 7613 7574 7600 7651 7626 7653 7594 7645 7667
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7660 7673
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7660 7673 7634
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7660
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7660 7673 7634
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7660
93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7607 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7673 7660 7711
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 7607 7607 7613 7574 7600 7651 7626 7653 7594 7645 7660 7673 7660 7673 7660 7711
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM751.3 94CY017.41	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7660 7673 7634 7696 7696 7686 7711
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCATT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7673 7660 7711 7696 7686
93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7626 7626 7653 7594 7645 7660 7673 7660 7711 7696 7713 7684
93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636 7653 7594 7645 7660 7673 7634 7660 7711 7696 7713 7686 7713
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7667 7667 7660 7711 7696 7713 7654 7703
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7656 7653 7594 7645 7660 7673 7660 7711 7696 7686 7713 7654
93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7653 7626 7653 7594 7667 7660 7673 7664 7711 7696 77113 7654 7703 7718 7718
93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92NG003.2 90CF056.1 92NG003.2	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7626 7653 7594 7645 7660 7673 7634 7660 7711 7696 7713 7654 7703 7725 7718 77218
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW009.6 92NG003.1 93BR020.1 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7673 7634 7660 7711 7696 7713 7654 7703 7725 7718
93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92NG003.2 90CF056.1 92NG003.2	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7673 7634 7696 7696 7711 7696 7713 7725 7718 7731 7692 7718
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW009.6 92NG003.1 93BR020.1 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7651 7653 7594 7667 7660 7673 76634 7660 7711 7696 7713 7654 7725 7718 7725 7718 7731 7692 7771
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7653 7626 7653 7594 7660 7673 76630 7711 7696 7711 7696 77113 7654 7703 7718 7718 7754 7744
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585 7607 7600 7613 7574 7600 7651 7651 7653 7594 7667 7660 7673 76634 7660 7711 7696 7713 7654 7725 7718 7725 7718 7731 7692 7771

Fig. 13-22

93BR020.1	.GAACCCGACAGGCCCGAAGGAATCGAAGAAGGAGGTGGAGAGCAAAGGCAAAGACAGATC	776
92NG083.2	CAG-AACCAG	778
90CF056.1	GAGCA	777
92RW009.6	GAGGAAA	779
92NG003.1	A A	775
93BR029.4	C	777
94CY032.3	G-GTAG-AG	783
96ZM651.8		781
96ZM751.3	A	780
94CY017.41	GT	783
		777
94IN476.104		,,,
	TAT 2 nd exon end C	
93BR020.1	CGTGAGATTAGTGACCGGATTCTTAGCTCTTGCCTGGGACGACCTGCGGAACCTGTGCCT	782
92NG083.2	-ACTCG	784
90CF056.1	C	783
92RW009.6	-A-TCAAAA	785
92NG003.1	AC-CG	781
93BR029.4	AAAAA	783
94CY032.3	-A-TC-C	789
	C	787
96ZM651.8		
96ZM751.3	AA-TC	786
94CY017.41	GA-TCAGCAAG	789
94IN476.104	-A-TCT-AG	783
93BR020.1	CTTCAGCTACCGCCACTTGAGAGACTTCATATTAATTGCAGCGAGGATTGTGGACA	787
92NG083.2	TAGAG-CGACGACTT-T	790
90CF056.1	TACTT-T	789
92RW009.6	T	791
92NG003.1		787
		789
93BR029.4	ACTT-T	
94CY032.3		795
96ZM651.8	GG-GAAGAGCTT-T	793
96ZM751.3	TGGAC-AC	791
94CY017.41	TAGT-GGCACTT-T	795
94IN476.104	T-GAGAACTT-T	789
93BR020.1	GGGGG.CTGAAGAGGGGGTGGGAAGCTCTCAAATATCTGGGGAA	792
93BR020.1 92NG083.2		792 796
92NG083.2	ACGCAGCAGCCTCAAGG-AGACTGCGCTT	796
92NG083.2 90CF056.1	ACGCAGCAGCCTCAAGG-AGACTGCGCCTT	796 793
92NG083.2 90CF056.1 92RW009.6	ACGCAGCAGCCTCAAGG-AGACTGCGCGCT CT ACGCAGCAGTCTCAGGG-AACA-CA-C	796 793 797
92NG083.2 90CF056.1 92RW009.6 92NG003.1	ACGCAGCAGCCTCAAGG-AGACTGCGCGCTTACGCAGCAGTCTCAGGG-AACA-CTGA-ACGCAGCAGTCTCCAGG-AGACTG-GCT	796 793 797 793
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	ACGCAGCAGCCTCAAGG-AGACTGCGCCTT	796 793 797 793 793
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACGCAGCAGCCTCAAGG-AGACTGCGC	796 793 797 793 793 799
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	ACGCAGCAGCCTCAAGG-AGACTGCGC	796 793 797 793 793 799
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACGCAGCAGCCTCAAGG-AGACTGCGCCTT	796 793 797 793 793 799
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	ACGCAGCAGCCTCAAGG-AGACTGCGC	796 793 797 793 793 799
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	ACGCAGCAGCCTCAAGG-AGACTGCGC	796 793 797 793 793 799 799
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	ACGCAGCAGCCTCAAGG-AGACTGCGC	796 793 797 793 793 799 799 801
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	ACGCAGCAGCCTCAAGG-AGACTGCGCCTT	796 793 797 793 793 799 799 801
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	ACGCAGCAGCCTCAAGG-AGACTGCGCCT-TGAAGCGCGCCT-T	796 793 797 793 793 799 799 795 801
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	ACGCAGCAGCCTCAAGG-AGACTGCGCCT-TGAAGCGCGCCT-T	796 793 797 793 799 799 795 801 795
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	ACGCAGCAGCCTCAAGG-AGACTGCGCCT-TGAAGCGCGCCT-T	796 793 797 793 799 799 795 801 795 798
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	ACGCAGCAGCCTCAAGG-AGACTGCGCCT-TGAAGCGCGCCT-T	796 793 797 793 799 799 795 801 795 798 803
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	ACGCAGCAGCCTCAAGG-AGACTGCGC	796 793 797 793 799 799 801 795 802 798
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	ACGCAGCAGCCTCAAGG-AGACTGCGC	796 793 797 793 799 799 795 801 795 798 802 799 803
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	ACGCAGCAGCCTCAAGG-AGACTGCGC	796 793 797 793 799 799 799 801 795 802 799 803 799 805
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	ACGCAGCAGCCTCAAGG-AGACTGCGCCTTACGCAGCAGTCTCAGGG-AACA-CGCTGA-AACGCAGCAGTCTCAGGG-AACGG	796 793 797 793 799 799 795 801 795 798 802 799 803
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACGCAGCAGCCTCAAGG-AGACTGCGCCTT	796 793 797 793 799 799 799 801 795 802 799 803 799 805
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	ACGCAGCAGCCTCAAGG-AGACTGCGCCTT	796 793 797 793 799 799 799 803 799 803 799 803 805
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY032.3 94CY017.41	ACGCAGCAGCCTCAAGG-AGACTGCGCCTTACGCAGCAGTCTCAGGG-AACACTGAAACGCAGCAGTCTCAGGG-AACGACTGGCTA-ACGCAGCAGTCTCCAGG-AGACTCGCGTA-ACGCAGCAGTCTCAAGG-AACCGAGACACTGCAGTCTCAAGG-AGACTGGAGACACTGCAGTCTCAAGG-AGACTGAGACACTGCAGTCTCAGGG-AAC	796 793 797 793 799 799 799 801 798 802 799 805 805 805 807
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	ACGCAGCAGCCTCAAGG-AGACTGCGCCTT	796 793 797 793 799 799 799 802 799 803 799 805 803
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACGCAGCAGCCTCAAGG-AGACTGCGCCT - T	796 793 797 793 799 799 799 801 795 803 799 803 799 805 801 807
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.1 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACGCAGCAGCCTCAAGG-AGACTGCG - CT - T	796 793 797 793 799 799 799 801 795 798 802 799 803 799 805 801 801
92NG083.2 90CF056.1 92RW009.4 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94LY017.41 94IN476.104 93BR020.1 92NG083.2 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY032.3 94CY032.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	ACGCAGCAGCCTCAAGG - A GACT GC - GC - CT - T	796 793 793 793 799 799 799 8015 798 802 799 803 799 805 801 801 804
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1	ACGCAGCAGCCTCAAGG-AGACTGCGCT	796 793 797 793 799 799 799 801 79 802 799 802 799 805 801 804 808 805
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94IN476.104	ACGCAGCAGCCTCAAGG-AGACTGCGCCT - T	796 793 797 793 799 7999 7995 801 795 805 801 807 801 808 808
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	ACGCAGCAGCCTCAAGG-AGACTGCG-CTTGAACGAACGAACGAACGAAAAAAAAAAAAA	796 793 793 793 799 799 799 8015 798 802 799 803 799 805 801 801 804
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACGCAGCAGCCTCAAGG-AGACTGCGCCT - T	796 793 797 793 799 7999 7995 801 795 805 801 807 801 808 808
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG083.2	ACGCAGCAGCCTCAAGG-AGACTGCG-CTTGAACCGAACCGAAACCGAAAAAAAAAAAAA	796 793 797 793 799 799 799 801 795 801 804 808 805 805 805
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3	ACGCAGCAGCCTCAAGG-A - GACT - GC - G - CT - T - GA - A - C - CT - CT - CT - CT - ACGCAGCAGTCTCAGGG - A - AC - AC - T - G - A - A - A - A - A - A - A - A - A	796 793 797 793 799 799 799 801 79 802 799 803 799 803 809 805 801 804 805 805 805 805
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8	ACGCAGCAGCCTCAAGG-A - GACT - GC - G - CT - T - GA - A - C - CT - CT - CT - CT - CT - CT	796 793 797 793 799 7995 801 795 802 799 803 7999 805 801 804 808 805 805 811
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	ACGCAGCAGCCTCAAGG - A GACT GC G - CT - T	796 793 797 793 799 7999 7995 801 795 803 7999 805 801 804 808 805 805 811 807
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92NG083.2 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	ACGCAGCAGCCTCAAGG-A - GACT - GC - G - CT - T - GA - A - C - CT - CT - CT - CT - CT - CT	796 793 797 793 799 7995 801 795 802 799 803 7999 805 801 804 808 805 805 811

Fig. 13-23

	ENV end	
93BR020.1	AGCTATTCTCAACATACCTAGAAGAATAAGACAGGGCTTGGAAAGGGCTTTGCTATAAA.	8100
92NG083.2	AAAAAAA	8143
90CF056.1	TAAGCTA	8116
92RW009.6	CTAT	8149
92NG003.1	AA	8110
93BR029.4	GTG	8115
94CY032.3	TG	8169 8172
96ZM651.8	C-GG	8129
96ZM751.3	AA	8189
94CY017.41 94IN476.104	C-G	8130
941N4/0.104	NEF start	
93BR020.1	ATGGGTGGCAAGTGGTCAAAAAGTAGTATAGTTGGATGGCCTGCTATAAGGGAAAGAATG	8160
92NG083.2	CAGA	8203
90CF056.1	AAGGGGTA	8176
92RW009.6	AA	8209
92NG003.1	AA	8170
93BR029.4	T-A	8175
94CY032.3	AAAG	8229 8232
96ZM651.8	GA	8189
96ZM751.3	A	8249
94CY017.41	GAAT	8190
941N4/6.104	1	0130
93BR020.1	AGGCGAACCCCTCCAACCC	8193
92NG083.2	A-ATGT-GA	8227
90CF056.1	G-TGAAGTA	8200
92RW009.6	ATGAGGA	8233
92NG003.1	A-AGAA	8191
93BR029.4	A-AGA	8199
94CY032.3	G-T-GAG-TGAGC-AGAAAGAATGAGGCGAGCTCAAGCTGAGCA	8289
96ZM651.8	AATGAGGA	8256
96ZM751.3	GCAATGAGA	8213 8303
94CY017.41	AATCAG-A-AAAGAACAGAAGCAGTGTCCCA	8214
94IN476.104	AIGAGGA	0214
93BR020.1	GGGGTGGGAGCAGTGTCTCAAGACTTAGAAAGACGGGGGGCAATTACAAGCAGCAATACT	8253
92NG083.2	AAA	8287
90CF056.1	AGTGTG-CTT-ATA	8260
92RW009.6	AAC	8293
92NG003.1	AA	8251
93BR029.4		8259
94CY032.3	AA	8349
96ZM651.8	AA	8316
96ZM751.3	AA	8273 8363
94CY017.41	AA	8274
94IN476.104	AA	02/1
93BR020.1	AGAGCTAATAATCCTGACTTGGCCTGGCTGGAAGCACAAGAGGAAGACGAAGTAGGC	8310
92NG083.2	GC-A-CCT-GT	8347
90CF056.1	GC-TC	8320
92RW009.6	CCCAGCCGT-GTC	8353
92NG003.1	GC-CAA-CT-GTACGAATTCAG	8311
93BR029.4	GG	8316
94CY032.3	GCA-GGAAAGT	8409
96ZM651.8	TA-C-CGAT	8373
96ZM751.3	TA-CGGAG-GA	8333 8423
94CY017.41	CC-AGCGCTGGTCGAGGAGAG1	8334
341N4/0.1U4	CC-AGCC1GG1CCG	5554
93BR020.1	TTTCCAGTCAGACCTCAGGTACCTTTAAGACCAATGACCTATAAGGGAGCTGTAGATCTC	8370
92NG083.2	GA	8407
90CF056.1	GT-T	8380
92RW009.6		8413
92NG003.1	TCTCT-T	8371
93BR029.4	T	8376
94CY032.3		8469
96ZM651.8	TCAC	8433
96ZM751.3	TCAT-T 	8393 8483
94CY017.41	C	8394
941N4/6.104	A	0004

Fig. 13-24

93BR020.1	AGTCACTTTTTAAAAGAAAAGGGGGGACTGGAAGGGTTAATTTACTCCAAGAGAAGACAA	8430
92NG083.2	CTT	8467
90CF056.1	CT	8440 8473
92RW009.6	CTTTAG	8431
92NG003.1 93BR029.4	TTA	8436
94CY032.3	CA	8529
96ZM651.8	CTTTAG	8493
96ZM751.3	CTT	8453 8543
94CY017.41	CTT	8454
94IN476.104		•
93BR020.1	GAGATCCTTGATCTGTGGGTCTACCACACACAGGCTACTTCCCTGATTGGCAGAACTAC	8490
92NG083.2	CAATA-TA-TA-TA	8527
90CF056.1	C	8500 8533
92RW009.6	CA	8491
92NG003.1 93BR029.4		8496
94CY032.3	T-TG-T	8589
96ZM651.8	ACA	8553
96ZM751.3	ACTTT	8513
94CY017.41	CAT	8603
94IN476.104	AT-AAA	8514
93BR020.1	ACACCAGGGCCAGGGATCAGATATCCACTGACCATGGGGTGGTGCTTCAAGCTAGTACCA	8550
92NG083.2	AA	8587
90CF056.1	T-T-T	8560
92RW009.6		8593
92NG003.1	TAT-TCA	8551
93BR029.4		8556 8649
94CY032.3	AGĀGTCTG-T-TA	8613
96ZM651.8	GAG	8573
96ZM751.3 94CY017.41		8663
94IN476.104	AAA	8574
		0.61.0
93BR020.1	GTTGACCCAGAGGAGGTAGAAAAGGCCAATGAAGGAGAACAACTGCTTGCT	8610 8647
92NG083.2	A-G	8620
90CF056.1	AA-TAGAGG-A	8653
92RW009.6 92NG003.1	A-GTCAAGG-AA-TATT	8611
93BR029.4		8616
94CY032.3	ATC	8709
96ZM651.8	TGATCT	8673
96ZM751.3		8633 8723
94CY017.41	AGTCTG-AT-C-C-GAA	8634
94IN476.104	TITLE TO A CHARLES	0051
93BR020.1	ATGAGCCAACATGGAATGGAGGATGAAGA.CAAAGAAGTACTGAAATGGGAGTTTGACAG	8669
92NG083.2	CTGAGAA	8706
90CF056.1	TG	8679
92RW009.6	CG	8712 8670
92NG003.1	CT	8675
93BR029.4 94CY032.3	AG	8768
96ZM651.8	TTTT-AGA	8732
96ZM751.3	AGAA	8692
94CV017 41	ATG-ATCCCTA-GGT-A-GT	8782
94IN476.104	T-AGC	8693
93BR020.1	CCGCTTGGCACTGAGACACATAGCCAGAGAGAGACATCCGGAGTACTACCAAGACTG	8726
93BR020.1 92NG083.2	TAC-AGCCTGATGC	8766
90CF056.1	TAC-ATCT-GCTA-AG	8736
92RW009.6	T-A-C-AACGC-CCTTTATGC	8772
92NG003.1	TAC-AG	8730
93BR029.4	C-AT-TCATGC-GCTGA-GTGC-	8735 8828
94CY032.3	TCTAC-AGGCTGTTATGC T-A-C-AAT-AGCTTTATGC	8828 8792
96ZM651.8	T-A-C-AAT-AGCCTTAIGC TTC-C-AGC	8752
96ZM751.3 94CY017.41	ΔΔCATGC	8842
94IN476.104	-AC-AGCTGC	8753

Fig. 13-25

NEF end	<u>. </u>
93BR020.1	AGACTGCTGACACAGAGATTGCTGACACAGAAGAATCT.AAAGGGACTTTCCA.CTG
92NG083.2	
90CF056.1	
92RW009.6	GGATTCCGCT
92NG003.1	-CA-AA-TGCGC
93BR029.4	-
94CY032.3	
96ZM651.8	GGATTCCGCT
96ZM751.3	
	GGA TTCCGCT
94CY017.41	
94IN476.104	†·····
93BR020.1	GGGACTTTCCAGAGGGTG.GGCCAGAGGGCGGGACTGGGGAGTGGCTCACCCTCAGAT
92NG083.2	
90CF056.1	G-GAC-T-AT-T-GGACA
92RW009.6	GGCA
92NG003.1	G-GAC-CAT-GAA
93BR029.4	
94CY032.3	
96ZM651.8	TCA
96ZM751.3	GGT-AT-T-GA
94CY017.41	A
94IN476.104	GTCATCA
93BR020.1	GCTGCATATAAGCAGCCGCTTTTCGCCTGTACTGGGTCTCTCTAGTTAGACCAGATTTGA
92NG083.2	TG
90CF056.1	T-GC
92RW009.6	
92NG003.1	TT
93BR029.4	
94CY032.3	
96ZM651.8	
96ZM751.3	
94CY017.41	TATA
94IN476.104	
9411470.104	
93BR020.1	GCCCGGGAGCTCTCTGGCTAGCTAGGGAACCCACTGCTTAA.GCCTCAATAAAGCTTGCC
92NG083.2	T
90CF056.1	TAAA
92RW009.6	T-'TT
92NG003.1	T,AG
93BR029.4	T
94CY032.3	T
6ZM651.8	T
	en e
06ZM751.3	,,
4CY017.41	
94IN476.104	
	TTGAGTGC.TTT 8968
 93BR020.1	
	C 8987
2NG083.2	8987
2NG083.2 0CF056.1	C 8987 8953
92NG083.2 90CF056.1 92RW009.6	8987 8953 8992
92NG083.2 90CF056.1 92RW009.6 92NG003.1	8987 8953 8992 8966
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	8987 8953 8992 8966
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW003.1 93BR029.4 94CY032.3	
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	
2NG083.2 0CF056.1 2RW009.6 2NG003.1 3BR029.4 4CY032.3 6ZM651.8 6ZM751.3 4CY017.41	

GAG		
93BR20.1	MGARASVLSGGKLDAWEKIRLRPGGKKKYRLKHLVWASRELERFALDPGLLETSEGCRKI	60
92NG083.2	VSRKIGNRDAVQ-	60
90CF056.1	NPLQ-	60
92RW009.6	I-RK-KT-MMN-DPKQ-	60
92NG003.1	N-DTQQ-	60
	IEKHIVNQ-	60
93BR029.4	R	60
94CY032.3	I-RK	60
96ZM651.8	I-RE-RH-MMIN	60
96ZM751.3	T. C. T. R E - R H-MM I N N N	60
94CY017.41	K-SINPQ-	60
94IN476.104	I-RRH-MINNDKQ-	00
93BR20.1	IGQLQPSLQTGSEELKSLYNTIAVLYYVHQKVEVKDTKEALEKLEEEQNKGRQKTQQATA	120
92NG083.2	MKATRFV-TCIP-EV-KI-KNSQ-EIAK	119
90CF056.1	-E-IAIKTF-LVCR-IDD-IISQA-	120
92RW009.6	MRATDRV-TCIDD-ISQE-	120
92NG003.1	MREV-KI-KNSQ-EK-AM	120
93BR029.4	LEA-KRV-TCIDIXSKK-AA-	120
94CY032.3	MEST-KRTT-WCRID-QD-II-S-SKA-	120
96ZM651.8	MKAIQ-IK	119
96ZM751.3	-QATRV-TCE-IK-RD-ISQIK	118
94CY017.41	-RATVVWR-DD-IH-A-	118
		120
94IN476.104	-KH-K[KFV-1CA61 K D 1 52 1	
93BR20.1	EKGVSQNYPIVQNLQGQMVHQSLSPRTLNAWVKVIEEKAFSPEVIPMFSALSEGAT	176
92NG083.2	NE-NSNPAIAIVV	179
90CF056.1	D-EKDNKAAIVV	180
92RW009.6	ADKGKAIQT	178
92NG003.1	GNSSQT	180
93BR029.4	NT-NNSQAIVV	180
94CY032.3	AA-GSSNAII	180
96ZM651.8	QQAADGKT	179
96ZM751.3	. EATGGKTAIG-NT	177
94CY017.41	DT-NSSTT	176
9401017.41	AD-KT	177
941N4/6.104	AD-R	
93BR20.1	PQDLNTMLNTVGGHQAAMQMLKDTINEEAAEWDRLHPTQAGPIPPGQIREPRGSDIAGTT	236
92NG083.2	IQSSS	239
90CF056.1	AMM	240
92RW009.6	VVVA	238
92NG003.1	Q	240
93BR029.4	VVHM	240
94CY032.3	MIM	240
96ZM651.8	VHAM	239
96ZM751.3	VHA	237
	VMM	236
94CY017.41		237
94IN476.104		
93BR20.1	STLQEQIQWMTGNPPVPVGEMYKRWIILGLNKIVRMYSPVGILDIRQGPKEPFRDYVDRF	296
92NG083.2	SII	299
90CF056.1	SK	300
92RW009.6	SK	298
92NG003.1	SK	300
93BR029.4	TSG	300
94CY032.3	GSITIS	300
96ZM651.8	SK	299
96ZM751.3	GSK	297
94CY017.41	S	296
94IN476.104		297
		256
93BR20.1	FKTLRAEQATQEVKGWMTDTLLVQNANPDCKTILKALGPGATLEEMMTACQGVGGPSHKA	356 359
92NG083.2	R	
90CF056.1	RQSI	360
92RW009.6	S-DNG	358
92NG003.1	RAL	360
93BR029.4	YAG	360
94CY032.3	CNESTT	360
96ZM651.8	NN	359
96ZM751.3	R	356
94CY017.41	SS	356
94IN476.104	4SV	357

Fig. 14-1

93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	RVLAEAMSQATNTAIMMQKSNFKGQRRISGA-AAAPVQPNRG	I L-R	K 419K 415K 419K 418K 418K 416K 413
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	EGHQMKDCTE.RQANFLGKIWPSNKGRPGNF	LTTG L-STN-GM- P-S-LTG L-ST	IA 471M- 471IA 467IA 471V 471 467 467 466
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	PSPKQEQKDEGLYPPLASLKSLFGNDP1P-EKETS1LKDKEPREPILSQ1LPREKESPTS-LSQ1 S-LPR-KETS-LSQ1 -AS-REA-TS-LSQ1 S-LLETREP-N-AILLQ1 -AS-RETAS-LSQ1	492 497 500 494 497 500 500 494 497 496	

POL	→	
93BR020.1	FFRENLAFOOGEARKLHPEOARAVSPASRELOVRGGD.NPIS.EAG	44
92NG083.2		44
90CF056.1	RFSTNTRRRDL	44
92RW009.6		44
92NG003.1	RSFP	44
93BR029.4	W-RGN-SLT-	45
94CY032.3	VRFSSEQANRGMREERNLLS	44
96ZM651.8	PKEFPSNTRR	43
96ZM751.3	PEGEPSTNT-SNSPTSRECP	49
94CY017.41	RFSSNNTENG-R-NLLP	44
94IN476.104	PEFPSKNTQ-DNPRS	43
93BR020.1	AE.RRGTVPSLSFPQITLWQRPLVTIRVGGQLKEALLDTGADDTVLEDVNLPGKWKPKMI	103
92NG083.2	-K.GE-AINVKII	102
90CF056.1	-AEGQEIVKIEREI	102
92RW009.6	QFNVKIREI	100
92NG003.1	GK-ITINLV-IIQIQI	102
93BR029.4	-DQ-DFGRVKIEIEIR	103
94CY032.3	TGQIFN	102
96ZM651.8	VQNS-KI	99
96ZM751.3	QT-NCS-KIEI	105
94CY017.41	TG.DQIQ-CNVKIEEI	103
94IN476.104	VQTNS-KIEIAR	99
93BR020.1	GGIGGFIKVKQYDSILIEICGHRAIGTVLVGPTPVNIIGRNMLTQIGCTLHFPISPIETV	163
92NG083.2	RQG-KKINN	162
90CF056.1	INNNNN	162
92RW009.6	SNNNNNN	160
92NG003.1	INN	162
93BR029.4	LNN	163
94CY032.3	RQ-PKKLLN	162
96ZM651.8	E-RQ-PMKKLLN	159
96ZM751.3	LNKK	165
94CY017.41	V-LN	163
94IN476.104	DLN	159
93BR020.1	PVKLKPGMDGPKVKQWPLTEEKIKALTEICMEMEKEGKISKIGPENPYNTPVFAIKKKDS	
		223
92NG083.2		223
92NG083.2 90CF056.1	RIKDKDII	
92NG083.2 90CF056.1 92RW009.6	RIKDRI	222
90CF056.1		222 222
90CF056.1 92RW009.6	R	222 222 220
90CF056.1 92RW009.6 92NG003.1	R	222 222 220 222
90CF056.1 92RW009.6 92NG003.1 93BR029.4	R	222 222 220 222 223
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	R	222 222 220 222 223 222 219 225
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		222 222 220 222 223 222 219 225 223
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	R	222 222 220 222 223 222 219 225
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		222 222 220 222 223 222 219 225 223 219
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		222 222 220 222 223 222 219 225 223
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		222 222 220 222 223 222 219 225 223 219
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		222 222 220 222 223 222 219 225 223 219 283 282
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	TKWRKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDKDFRKYT	222 222 220 222 223 222 219 225 223 219 283 282 282
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	TKWRKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDKDFRKYT	222 222 220 222 223 222 219 225 223 219 283 282 282 280
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		222 222 220 222 223 222 219 225 223 219 283 282 282 280 282
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	TKWRKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDKDFRKYT	222 222 220 222 223 222 219 225 223 219 282 282 282 282 282 283 2279
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	TKWRKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDKDFRKYT	222 222 220 222 223 222 219 225 223 219 283 282 280 282 283 282 283 282 283 285
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TKWRKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDKDFRKYT	222 222 220 222 223 222 219 225 223 219 283 282 280 282 283 282 283 282 283
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	TKWRKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDKDFRKYT	222 222 220 222 223 222 219 225 223 219 283 282 280 282 283 282 283 282 283 285
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TKWRKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDKDFRKYT	222 222 220 222 223 222 219 225 223 219 283 282 280 282 283 282 283 282 283
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	KD	222 222 220 222 223 222 219 225 223 219 282 282 282 282 282 283 279 285 287 287
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG09.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	KD	222 222 220 222 223 222 219 225 223 219 282 282 282 282 282 283 282 279 285 283 279
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	KD	222 222 220 222 223 222 219 225 223 219 282 282 282 282 282 279 285 282 279 285 283 279
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 94IN476.104	KD	222 222 220 222 223 222 219 225 223 219 282 282 282 282 283 282 279 285 283 279 285 283 279 285 283 279 285 283 279 285 283 279 285 285 286 287 287 287 287 287 287 287 287 287 287
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	No. No.	222 222 220 222 223 222 219 225 223 219 283 282 280 282 283 279 285 283 279 285 283 279 285 283 279 285 283 279 285 283 279 285 283 283 283 283 283 283 283 283 283 283
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3	No. No.	222 222 220 222 223 222 219 225 223 219 283 282 280 282 283 279 285 283 279 285 283 279 285 283 279 285 283 279 285 283 279 285 283 282 283 283 284 285 286 287 287 287 287 287 287 287 287 287 287
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	No. No.	222 222 220 222 223 222 219 225 223 219 282 282 282 282 279 285 287 287 283 243 342 342 342 343 342 343
90CF056.1 92RW009.6 92NW003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6 92NG09.6 92NG09.6	R	222 222 220 222 223 222 219 225 223 219 282 282 282 282 283 279 285 283 279 285 283 279 285 283 279 285 283 279 285 283 279 285 287 287 287 287 287 287 287 287 287 287
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	No. No.	222 222 220 222 223 222 219 225 223 219 282 282 282 282 279 285 287 287 287 283 242 243 342 342 342 343 342 343

Fig. 15-1

93BR020.1	VGSDLEIGQHRTKIEELREHLLKWGLTTPDKKHQKEPPFLWMGYELHPDKWTVQPIQLPD	403
92NG083.2	E	402
90CF056.1	AAFFTVKE	402
92RW009.6	E	400
92NG003.1	N	402
93BR029.4	VE	403
94CY032.3		402 399
96ZM651.8	A	405
96ZM751.3		403
94CY017.41	SVKE	399
94IN476.104	КЕ	322
93BR020.1	KDSWTVNDIQKLVGKLNWASQIYPGIKVKQLCKLLRGAKALTDIVPLTTEAELELAENRE	463
92NG083.2	-EDAM	462
90CF056.1		462
92RW009.6	EE	460
92NG003.1	_REEE	462
93BR029.4	EvEvAAREvA	463
94CY032.3		462
96ZM651.8	EEK-	459
96ZM751.3	-EEES	464
94CY017.41	TTKE	463
94IN476.104	EE	459
		-0 2
93BR020.1	ILKEPVHGAYYDPSKDLIAEIQKQGQGQWTYQIYQEPFKNLKTGKYAKMRSAHTNDVKQL	523
92NG083.2	YRG	522
90CF056.1	RIV	522
92RW009.6	V	520
92NG003.1	Y	522
93BR029.4	VRG	523
94CY032.3	RTR	522
96ZM651.8	VTT	519
96 ZM 751.3	VTT	524 523
94CY017.41	TV	519
94IN476.104	TT	213
	TEAVQKISLESİVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY	582
93BR020.1	VAT-GIKREVA	581
92NG083.2	TH	581
90CF056.1	AMQED	579
92RW009.6	ATVKREVD	581
92NG003.1	TTIKQEAI	582
93BR029.4	AM-CQQ	581
94CY032.3	AIQEDL	578
96ZM651.8	AMIQED	583
96ZM751.3	TM	582
94CY017.41	AI?QEDD	577
94IN476.104	Z Z Z	
93BR020.1	QLETEPIVGAETFYVDGASNRETKKGKAGYVTDRGRQKAVSLTETTNQKAELQAIQLALQ	642
92NG083.2	PH	641
90CF056.1	KVTY-IALKVTTY	641
92RW009.6	KL	639
92NG003.1	RPYA-KLKIITIQT-H	641
93BR029.4	KTALV-PDTH	642
94CY032.3	DAAQVS <u>T</u> Y	641
96ZM651.8	KTYY	638
96ZM751.3	KATTT	643
94CY017.41	KA	642
94IN476.104	KTT	637
		700
93BR020.1	DSGSEVNIVTDSQYALGIIQAQPDKSESELVNQIIEQLIKKEKVYLSWVPAHKGIGGNEQ	702
92NG083.2	RP	701
90CF056.1	LEE	701
92RW009.6	R	699
92NG003.1	RTT	701
92NG003.1 93BR029.4	R	701 702
92NG003.1 93BR029.4 94CY032.3		701 702 701
92NG003.1 93BR029.4 94CY032.3 96ZM651.8		701 702 701 698
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		701 702 701 698 703
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		701 702 701 698

Fig. 15-2

93BR020.1	VDKLVSAGIRKVLFLDGIDKAQEEHEKYHNNWRAMASDFNIPAVVAKEIVASCDKCQLKG	762 ·
92NG083.2	S	761
90CF056.1	S-VRVL-PI	761
92RW009.6	SR	759
92NG003.1	SSDRSL-PI	761
93BR029.4	SP	762
94CY032.3	L_SN	761
96ZM651.8	KQ	758
	SEL-PI	763
96ZM751.3	S	762
94CY017.41	RSDSNEL-PI	757
94IN476.104	<i>B B</i> 1	
0200000 1	EAMHGQVDCSPGIWQLDCTHLEGKIILVAVHVASGYLEAEVIPAETGQETAYFLLKLAGR	822
93BR020.1	EAMINGQVDCSFGTWQBDCTTBBGKT12TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	821
92NG083.2	KS-	821
90CF056.1	II	819
92RW009.6	V-II	821
92NG003.1	VV	822
93BR029.4	III	821
94CY032.3	T	818
96ZM651.8	T	823
96ZM751.3		822
94CY017.41		817
94IN476.104	IYI	ŲΙ,
	NOVEMBER OF THE ABOVE TO A CHILD CTO OFFICE DANDOS OCCUPE SMNKET. KET TO OFFI	882
93BR020.1	WPVKTIHTDNGTNFTSATVKAACWWAGIQQEFGIPYNPQSQGVVESMNKELKKIIGQIRD	881
92NG083.2	VVG-	881
90CF056.1	VN	879
92RW009.6	VSN	881
92NG003.1	VSAMNV	
93BR029.4	IV	882
94CY032.3	MAPAD-NV	881
96ZM651.8	VSAKV	878
96ZM751.3	VVSAH	883
94CY017.41	VPTV	882
94IN476.104	VSAV-E	877
93BR020.1	OAEHLKTAVOMAVFIHNFKRKGGIGGYSAGERTIDIIATDIQTRELQKQIIKIQNFRVYY	942
93BR020.1 92NG083.2	QAEHLKTAVQMAVFIHNFKRKGGIGGYSAGERTIDIIATDIQTRELQKQIIKIQNFRVYY	941
92NG083.2	KKSNKSNKSNK	941 941
92NG083.2 90CF056.1		941
92NG083.2 90CF056.1 92RW009.6	ISKSNK IIKT	941 941
92NG083.2 90CF056.1 92RW009.6 92NG003.1		941 941 939
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		941 941 939 941
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		941 941 939 941 942
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		941 941 939 941 942 941
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		941 941 939 941 942 941 938
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		941 949 941 942 941 938 943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		941 941 939 941 942 941 938 943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	- I - S - K	941 941 939 941 942 941 938 943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		941 941 939 941 942 941 938 943 943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		941 941 939 941 942 941 938 943 943 937
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		941 941 939 941 942 938 943 943 947 1002
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		941 941 939 941 942 943 943 942 937 1002 1001
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		941 941 939 941 942 941 938 943 943 1001 1001
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		941 941 939 941 942 943 943 942 937 1002 1001 1001 1002
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		941 941 939 941 942 941 938 943 943 1002 1001 1001 1002 1001
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		941 941 939 941 938 943 943 9001 1001 999 1001 10001 998
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		941 941 939 941 938 943 943 943 9001 1001 1002 1001 1002 1001
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		941 941 939 941 938 943 942 937 1002 1001 1002 1001 999 1001 998 1003 1002
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 94IN476.104		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 94IN476.104		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		941 941 939 941 938 943 943 943 9001 1001 1001 1002 1001 999 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1		941 941 939 941 938 943 942 937 1002 1001 1002 1001 999 1001 998 1003 1002
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.0 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		941 941 939 941 938 943 942 937 1002 1001 1001 1002 1001 998 1003 1003

Fig. 15-3

VIF			
93BR020.1	MENRWQVMIVWQVDRMRINTWKSLVKY	HMHISKKAKGWFYRHHFESRHPKISS	EVHIPLE
92NG083.2	V	T-P	R
90CF056.1		KK	G
92RW009.6	K-RNF	IYA-RRY	
92NG003.1	RN	YKDYV	
93BR029.4	V	VR	
94CY032.3	-AK-RN	IYVV	G
96ZM651.8	ALRN	IYRNYRV	G
96ZM751.3	K-RNE	IYVRTGRY	G
94CY017.41	RN	I Y R V - K Y N - R	G
94IN476.104	L	IYV-RR-SYV-A	1G
93BR020.1	TAELVITTYWGLLPGEREWHLGQGVSI	EWRQGRYRTQIDPGLADQLIHIYYFD	CFSESAI
92NG083.2	D-TVRHAKD-QH	KSNTHL	
90CF056.1	E-RNT	LKSVEMH	
92RW009.6	E-RKQTDH	LRKVGMH	AD
92NG003.1	E-RVRHTD	K-RSD- LHN	1A
93BR029.4	E-K		
94CY032.3	E-RVRQDH	LRSVDMH	
96ZM651.8	D-KKQTDH	LRSVMH	- - - AD
96ZM751.3	D-KKH	LRSVMHN	1AD
94CY017 41	E-RTIVRHTKDH	NHDHL	
94IN476.104	D-RKQTDH	LSVEMH	AD
93BR020.1	RKAILGHKISPRCNYQAGHNKVGSLQ	/LALTALIAPKKTKPPLPSVQKLVEDF	RWNKPQKT
92NG083.2	EIVE-P	SK VT-TRKRGA	
90CF056.1	RVVRPKOT	R	
92RW009.6	TVD	S	<
92NG003.1	EVVRE-TO	K VT - TO K T	E
93BR029.4	RD	K R K T	
94CY032.3		ASK	
96ZM651.8	IVID	KRR	NS
96ZM751.3	ITVID	R	
94CY017.41	T-ETVE	K-VV-STRR	
94IN476.104		KRK	N
93BR020.1	RGHRESHTMNGH1 192		
92NG083.2	-DNP1 192		
90CF056.1	G1 192		
92RW009.6	R-GN1 192		
92NG003.1	GST1 192		
93BR029.4	KDG1 192		
93BRU29.4 94CY032.3	RNOI1 191		
96ZM651.8	K-R-GNVS1 192		
96ZM651.8 96ZM751.3	K-R-GN-I1 192		
96ZM/51.3 94CY017.41	KGC1 192		
94CY017.41 94IN476.104			
94 IN4 /h . IU4			

VPR 93BR020.1 ${\tt MEQAPEDQGPQREPYNEWTLDLLEELKNEAVRHFPRPWLHSLGQHIYNTYGDTWEGVEAI}$ 60 92NG083.2 90CF056.1 92RW009.6 60 92NG003.1 56 93BR029.4 60 94CY032.3 60 96ZM651.8 60 96ZM751.3 60 94CY017.41 60 93BR020.1 IRILQQLLFIHFRIGCRHSRIGITRQRRVRNGTSRS1 96 96 92NG083.2 90CF056.1 96 92RW009.6 96 92NG003.1 92 96 95 96 96

96

TAT

93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	MELVDPNLDPWNHPGSQPTTPCTRCYCKWCCFHCYWCFTTKGLGI -DPK-EQ-A-NNK-Y-QM-LKDPK-EK-A-NNH-SY-LV-QAPR-E-KR-Q-A-NSKQVLNPSIEK-A-NKR-SY-LV-QPSIE		60 60 60 60 60 60 60 60
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	SSQIHQDFVPKQPISQA.RGNPTGPKESKKEVESKAKTDP1 G-KDNPLPIT.SSEKPATELD1 -L-DNSISL-RT.H-DQATE1EDNPISLTDSEKTEAFD1LPAQ	99 101 99 101 101 99 102 101 101	

REV		
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CF032.3 96ZM751.8 96ZM751.3 94CY017.41	MAGRSGDSDQELLKAVRYIKILYQSNPYPKP.EGTRQARRNRRRRWRARQRQIREISDRI	5999955559 599999999999999999999999999
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CF032.3 96ZM651.8 96ZM751.3 94CY017.41	LSSCLGRPAEPVPLQLPPLERLHINCSEDCGQGAEEGVGSSQISGESHTVLGS -AFG-SLD-K-G-TSGTQQPQGTETRP-VLV-PPVTPTTLTSG-KEPLS-IT -TFIT-DG-TSGTQQSQGTTENPTISLDSRTPETQQSPGTETGPV-PV	112 119 112 107 119 112 113 107 96 119
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CF032.3 96ZM651.8 96ZM751.3 94CY017.41	GTKE1 1161 1231 1161 1071 1231 116 -A1 1171 1071 96E-1 1231 107	

VPU

93BR020.1	MSNLLAIGIAALIVALIITIVVWT	.IAYIEYKKLVRQRKINRLYKRISERAEDSG	54
92NG083.2	-QAEISXF-AATIS	VFR-IRK-KEK-LDR	51
90CF056.1	-YIG.LGV-TFAVI	-VKDIEG	53
92RW009.6	-TSEIYA-VV	L-GLKDI-K-R	54
92NG003.1	-OSEIAAGVA-AA	X-IKK-EDLDR	49
93BR029.4	YVLAA	RE	54
94CY032.3	-LFWEIWA-VGVV	.LVFRR-DSNR	54
96ZM651.8	-LD-LARVNYRVGVGAL-A	RLDW-IR	5.9
96ZM751.3	-LEARVDYRIGVGAAA-AI	VRSDIR	5 9
94CY017.41	-LPVILA-VGLA	VFIKKDW-I	54
94IN476.104	-VLERVDYRLGVGALAIVW	rLRL	5 9
93BR020.1	NESEGDAEELAALGEVGPFIPGDINNL1	81	
92NG083.2	TT-M-M-D-D-WVG1	78	
90CF056.1	DTSK-M-M-HLNL-YVAD-1	80	
92RW009.6	DIDSK-VGNYDLV1	81	
92NG003.1	TT-VDMVD-D-WVGD1	76	
93BR029.4	D1	81	
94CY032.3	DST-VGM-N-D-WVGD1	81	
96ZM651.8	TTMVDM-HIRIJI-V-D-1	86	
96ZM751.3	NTMVDM-HLRLL-AIDV1	86	
94CY017.41	DTSV-R-HI-DFVV1	81	
94 TN4 76 104	2 1 2 1 11221 1 12	86	

	02/03	
ENV		
DIA A		
020000 1	MRVRGMQRNWQHLGKWGLLFLGTLIICNAAENLWVTVYYGVPVWKEATTTLFCASDAKSY	60
93BR20.1	K-IWT-ILVS-SDED-D-P	60
92NG083.2	METYPS-WRT-IM-LSQKKA-	57
90CF056.1	METYPS-WRT-IM-LSQA	
92RW009.6	M-TLM-Y-N-WGTMIM-TSND-EA-	60
92NG003.1	K-TWT-WT-ILVS-SNED-D-PA-	60
93BR029.4	A-	59
94CY032.3	M	60
96ZM651.8	EIIRWWTI-GFWM-MVWG	60
96ZM751.3	K-TMK-T-T-GFWM-I.MMGKKKA-	60
94CY017.41	M-TYWRG-I-IM-K-TDD-D-IA-	59
94IN476.104	ILCWWII-GFWM-M-Y-VVGKA-	60
J41N470.104	The second secon	
020020 1	EKEAHNVWATHACVPTDPNPQEVVLENVTERFNMWENNMVEQMHTDIISLWDQSLKPCVK	120
93BR20.1	SS-KEEEAINKQEEE	120
92NG083.2	-T-K	117
90CF056.1	-T-K	
92RW009.6	DP-KIDIHEK	120
92NG003.1	ST-REEE	120
93BR029.4	N-DK	119
94CY032.3	VINEGA-INK-DENEGA-	120
96ZM651.8	VEIGNK-DDE	120
96ZM751.3	-T-VEMKDE	120
94CY017.41	DT-VQEIN	119
94IN476.104	VI	120
J41N470.104		
020020 1	LTPLCVTLDCRNIATNGTNDTIAIND.TLKEDPEAIQNCSFNTTTEIRD	168
93BR20.1	I-N-TVNSANHTEANN-VENKEKKIRGG	164
92NG083.2	I-N-1VNSANHIEANN-VENKEKIKIG	
90CF056.1	N-TVR-N-SNSTS.SMEAG.GELTVVL	160
92RW009.6	E-NNITNVNNTVNITDDMKGEKML	163
92NG003.1	N-TNVNCNSNV-STG-SAGTNATCNIE-A.NNLKI	173
93BR029.4	R-SMAT-NSTQNDE-GMV	162
94CY032.3	SFT-INAT-TNSTNG-VIKEGKDI	161
96ZM651.8	N-TEVNVTR-VN-SVVNNTTNVNNSMNGDMKILK-	171
96ZM751.3	N-TANITNANIT-NANITNYNNETDMRIL	168
94CY017.41	I-N-SNANTS-HSNSSS-QSPIN-EKYIL	164
94IN476.104		158
941N470.104	N-SKVIN	
020020 1	KQLKVHALFYKLDIVQINKDDNRTYRLINCDASTITQACPKVSWD	213
93BR20.1	-KKEEYNF-	209
92NG083.2	-KREEYNP-	
90CF056.1	QFE	204
92RW009.6	-KQR-YSRFE	212
92NG003.1	-KKTEYRV-PDGNN-VS.NNNVKF-	220
93BR029.4	RPSN-NSSN.DNSSREYNTL	213
94CY032.3	-KK-EYRIP-NARVPINGSNRNNSTEEYMNKFE	216
96ZM651.8	-KKN-YSLET-DSETGNSSKYYNT-ALF-	223
96ZM751.3	-RRO-DPENSSEYNT-ATF-	212
94CY017.41	-TQYSRVLDESENKNTSGSNTLYNTTFE	216
94IN476.104		208
34111470:104	INC. EL INC. INC. INC. INC. INC. INC. INC. INC.	
93BR20.1	PIPIHYCAPAGYAILKCNEKNFTGTGSCKNVSTVQCTHGIKPVVSTQLLLNGSLAEGE.I	272
92NG083.2	ED.	268
	RD-EINPRD-EINED.	263
90CF056.1	NEE	271
92RW009.6	R-K-K-NP	
92NG003.1	-LFRGQS	279
93BR029.4	KD	272
94CY032.3	F	275
96ZM651.8	EG	282
96ZM751.3	E	271
94CY017.41		. 276
94IN476.104		267
93BR20.1	VIRSONISDNAKTIIVHLNESVOINCTRP.NNNTRKRISLGPGRVFYTTGEIIGDIRKAH	331
92NG083.2	RE-FTT-VQN-IEIS-PIQAADQ	327
90CF056.1	ITKQ-KTP-N-TTS-HAADQ-	322
	IETNQTSSVHIQAADVQ-Y	330
92RW009.6	E-LTVOKTIGS-RIQAA	332
92NG003.1		331
93BR029.4	IQVPS-PIA	
94CY032.3	KTT-NQ-AKA-KGTSVHILTW-AQ	334
96ZM651.8	IE-LTN-VR-IE-V-VQS-RIQTADQ-	341
96ZM751.3	IK-MTIE-VSVRIQTANQ-Y	330
94CY017.41	METNNQFTKP-L-T-IS-RFQANQ	334
94IN476.104	ITETIK-VS-RIQAA-NGQ-	326

Fig. 21-1

		390
93BR20.1	CNVSGTQWRNTLAKVKAKLGSYFPNAT.IKFNSSSGGDLEITRHNFNCMGEFFYCNTDEL	
		386
		381
		390
92RW009.6	-T-NK-NRQAESHE-I-I-I-NN	385
92NG003.1	QE-QEM-QQ-EQV-NKS11A	390
		393
		400
		389
96ZM751.3	I-EGK-NQR-GERKKI-TNPTLSATG- INK-L-NDQAEQ-REKKKI-TNPTLSA	393
94CY017.41	INK-L-NDQAEQ-REKKKI-ING	385
94IN476.104	INK-L-NDQAEQ-REKKKT-IN I-ESN-TKQE-GKAKHKSQVT-SGSR-	
		434
93BR20.1	FNDTKFNDTGFNGTITLPCRIKQIVNMWQEVGRAMYANPIAGNI	
		428
92NG083.2		432
90CF056.1		440
92RW009.6	STWSKRNGIWQSN-IBLN	425
92NG003.1	ESGGNDIR-IR	429
93BR029.4		444
94CY032.3		
		444
96ZM651.8		437
96ZM751.3	GTFNGIPISRDND	446
94CY017.41	GTFNGTNISNDRS-S-S-L- GTWWNNGTWNGPYTPNNTS-IIRPI-	437
94IN476.104	GTWWNNGTWNGPPIPNNIS-I	
		488
020020 1	TCNSNITGLLTRDGGLNSTNETFRPGGGNMKDNWRSELYKYKVVEIEPLGVAP	
93BR20.1	XI NIDO TELLILILIAILININO	484
92NG083.2		487
90CF056.1	M-VK	495
92RW009.6	S-V	480
92NG003.1		484
93BR029.4		
		497
94CY032.3		503
96ZM651.8		493
96ZM751.3	K-TII	500
94CY017.41	K-TII N-G N	492
94IN476.104	-EKI-	
2		E40
020020 1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA	548
93BR20.1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	544
92NG083.2	-R-R-R-E-KMS	547
90CF056.1		54/
	1R-RBR 11 5	-
92RW009.6	T	555
	-RREKV-I	555 540
92NG003.1	-RR-E-KV-I	555 540 544
92NG003.1 93BR029.4	-RR-E-KV-I	555 540 544 556
92NG003.1 93BR029.4 94CY032.3	-RR-E-KV-I	555 540 544 556 563
92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-RR-E-KV-I	555 540 544 556
92NG003.1 93BR029.4 94CY032.3	-RR-E-KV-I	555 540 544 556 563
92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-RR-E-KV-I	555 540 544 556 563 553 560
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-RR-E-KV-I	555 540 544 556 563 553
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-RR-E-KV-I	555 540 544 556 563 553 560 552
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-RR-E-KV-I	555 540 544 556 563 553 560 552
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1	-RRE-KV-I	555 540 544 556 563 553 560 552 608
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2	-RR-E-KV-I	555 540 544 556 563 553 560 552
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1	-RR-E-KV-I	555 540 544 556 563 553 560 552 608
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2	-RRE-KV-I	555 540 544 556 563 553 560 552 608 604 607 615
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6	-RRE-KV-I	555 540 544 556 563 553 560 552 608 604 607 615 600
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	-RR-E-KV-IR-R-E-GKV	555 540 544 556 563 553 560 552 608 604 607 615 600 604
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-RRE-KV	555 540 544 556 563 553 560 552 608 604 607 615 600 604 616
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-RRE-KV	555 540 544 556 563 553 560 552 608 604 607 615 600 604
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-RRE-KV	555 540 544 556 563 553 560 552 608 604 607 615 600 604 616
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-RRE-KV	555 540 544 556 563 553 560 552 608 604 615 600 616 623 613
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-RR-E-KV-IR-R-E-GKV	555 540 544 556 563 553 560 552 608 604 607 615 600 604 616 623 613 620
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-RRE-KV	555 540 544 556 563 553 560 552 608 604 615 600 616 623 613
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-RRE-KV	555 540 544 556 563 553 560 552 608 604 607 615 600 616 623 613 620 612
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-RRE-KV	555 540 544 556 563 553 560 552 608 604 615 600 616 623 613 620 612
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-RR-E-KV-IR-R-E-GKV	555 540 544 556 563 553 560 552 608 604 607 615 600 604 616 623 620 612 668
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1	-RRE-KV	555 540 544 556 563 553 560 552 608 604 615 600 616 623 613 620 612
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-RRE-KV	555 540 544 556 563 553 560 552 608 604 607 615 600 604 616 623 620 612 668
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1	-RRE-KV	555 540 544 556 563 553 560 552 608 604 607 615 600 616 623 613 620 612 668 664 675
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2	-RR-E-KVGVNNNN	555 540 544 556 563 553 560 552 608 604 615 600 616 623 613 620 612 664 667 667 6664
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1	-RR-E-KV-IR-R-E-GKV	555 540 544 556 563 553 560 552 608 604 607 615 620 612 664 667 6664
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2	-RREKV-IR-REGKV	555 540 544 556 563 553 560 552 608 604 607 615 623 612 664 667 675 6604 676
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1	-RR-E-KV-IR-R-E-GKV	555 540 544 556 563 553 560 552 608 604 607 615 600 616 623 612 668 667 660 667 660 667 668
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR20.1 93BR20.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 94CY032.3 96ZM651.8	-RR-E-KV-IR-R-E-GKV	555 540 544 556 563 553 560 552 608 604 607 615 623 612 664 667 675 6604 676
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1	-RR-E-KV-I	555 540 544 556 563 553 5602 608 604 615 600 616 623 613 620 612 664 667 6664 6676 6683 672
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR029.4 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	-RR-E-KV-I	555 540 544 556 563 553 560 552 608 604 615 620 612 662 662 675 6664 676 6872 688
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR029.4 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	-RR-E-KV-IR-R-E-GKV	555 540 544 556 563 553 5602 608 604 615 600 616 623 613 620 612 664 667 6664 6676 6683 672

Fig. 21-2

93BR20.1	LWYIKIFIMIVGGLIGLRIVFTVLSIVNRVRKGYSPLSFQTHIPSPRE.PDRPEGIEEGG	727
92NG083.2	RAA	723
90CF056.1	LV-NGT	726
92RW009.6		734
92NG003.1		719
93BR029.4	L-RF	723
94CY032.3	LTTQRGLG-TE-	736
96ZM651.8	L-NGRE-	742
96ZM751.3		731
94CY017.41	REGR-T	739
94IN476.104	LT-DLRE-	731
93BR20.1	GEOGKDRSVRLVTGFLALAWDDLRNLCLFSYRHLRDFILIAARIVDRGLKRGW	780
92NG083.2	DRTSSHRLVT-ELLGRSSLKGLRL	783
90CF056.1	DRNPVVS-SLLLVV-T-ELLGRR	779
92RW009.6	DRGISSHRLLT-ELLGRSSLRGLQ	794
92NG003.1	DRSS	779
93BR029.4	PNV	776
94CY032.3	DRSINP-INLLVT-ELLGIR	789
96 ZM651.8	D-ESS	802
96ZM751.3	DRINSHRGLQ	780
94CY017.41	RINFSHRCT-ELLGHCSLKGLRL	799
94IN476.104	DINSCHRVA-ELLGRSSLRGLQ	791
93BR20.1	EALKYLGNLTQYWGQELKNSAISLLNATAIAVAEWTDRVIEALQRAGRAILNIPRRIRQG	840
92NG083.2	-GWLLRNDTIT-NGVAYV-T	843
90CF056.1	WLH	839
92RW009.6	-TVLRNDTVGILIISYS	854
92NG003.1	-GWLLRN-IDTINUA-G-C	839
93BR029.4	LALSTVGVV	836
94CY032.3	W-FLLN-F-TGIVCC	849
96ZM651.8	S-VLKDTIGILI-GICR-V -TS-VLKDTIGILTICR-V	862
96ZM751.3 94CY017.41	-G-N-WLLR	840 859
94CY017.41 94IN476.104	S-VLKDTITIGIFTICR	851
941N4/6.104	S-VEK	031
93BR20.1	LERALL1 846	
92NG083.2	1 849	
90CF056.1	FS1 845	
92RW009.6	F-AQ1 860	
	1 845	
92NG003.1		
93BR029.4	1 842	
93BR029.4 94CY032.3	1 855	
93BR029.4 94CY032.3 96ZM651.8	1 855 F-T1 868	
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	1 855 F-T1 868 F-AQ1 846	
93BR029.4 94CY032.3 96ZM651.8	1 855 F-T1 868 F-AQ1 846 1 865	

NEF		
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	MGGKWSKSSIVGWPAIRERMRTPPTPP.AAE	47 44 44 43 44 56 44 44 54
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	SSNTRANNPDLAWLEAQEED.EVGFPVRPQVPLRPMTYKGAVDLSHFLKEKGGLEGLIYS ATCSDA-F-FD IN-AST-R-ADGE	106 104 104 103 103 116 103 104 114
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	KRRQEILDLWVYHTQGYFPDWQNYTPGPGIRYPLTMGWCFKLVPVDPEEVEKANEGENNC DNF	166 164 164 163 163 176 163 164 174
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	LLHPMSQHGMEDEDKEVLKWEFDSRLALRHIARERHPEYYQD.1 208IC	